ESSG

European Service Support Group

Technical Information & Parts Supply

DEWALT

High Performance Professional Tools & Accessories

# DW746

# TABLE SAW

## TYPE 1

| | | | | |
|---|---|---|---|---|
| Introduction | Exploded Drawings<br>E12907<br>E12908<br>E12909<br>E12913 | Bill Of Material<br>DW746-----A<br>DE7460----A<br>DE7461----A<br>DE7462----A<br>DE7464----A<br>DE7468----A | Repair Instructions<br>R11306 | New Parts<br>224 |

| | | | | |
|---|---|---|---|---|
| Accessories<br>DE7460-E13012<br>DE7461-E13006<br>DE7461-E13008<br>DE7462-E13010<br>DE7464-E13017<br>DE7468-E13009 | Alignment Procedures<br>Strip-down Repair Procedure | Wiring Diagram<br>E13011 | Product Photographs<br>User Manual in English | Main Menu |

3rd August 2000

Steve Hurt

# Introduction

**DW746**
**Woodworkers Table Saw**

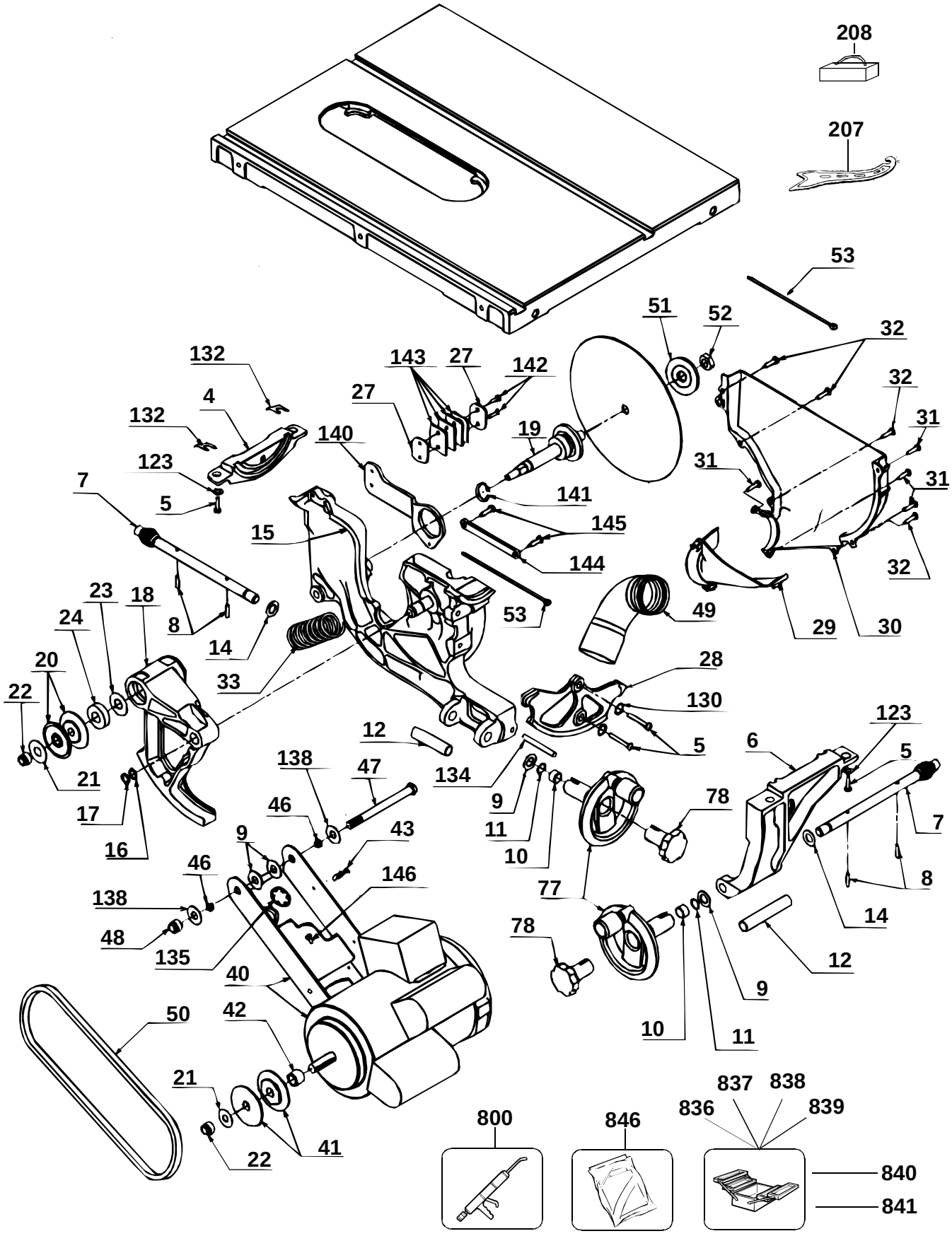
- **Extremely accurate fence system, ensures blade parallelism in all positions, microscopic adjustment can be achieved with gentle hand pressure.**
- **Powerful 2700 watt induction motor delivers high torque in ripping and cross cutting applications where tip speed must be maintained to ensure high cut quality. DW746KT 3700 watt three phase model also available.**
- **Solid cast iron table has been precisely machined to exacting tolerances to ensure the tightest accuracy in high quality joinery and cabinet making applications.**
- **Control handles have been specifically designed for ease of use and user comfort. Fine pitch controls ensure the unit can be accurately set quickly and effectively.**
- **The large trunnion mounting mechanism for the blade has been designed to limit blade flex or wobble, while maintaining perpendicularity to the table.**
- **Multiple attachments are available to fully extend the capability of this workshop thoroughbred.**
- **Dust extraction may be connected via the 100mm extraction port. A jointed attachment is also available for extraction directly off the upper guard.**

## ***Launch Details***

| | |
|---|---|
| **Manufacturing Plant** | **Fayetteville USA** |
| **Service Parts Warehouse** | **Perth Ave, UK** |
| **Launch Markets** | **Europe, GB** |
| **Launch Date** | **1st August 2000** |

## ***Technical Information***

| | |
|---|---|
| **Voltage Single Phase** | **230 Volts** |
| **Ampere Single Phase** | **12 Amps** |
| **Voltage Three Phase** | **415 Volts** |
| **Ampere Three Phase** | **6 Amps** |
| **Power Input** | **2700 Watts / 3700 Watts (3 Phase)** |
| **Power Output** | **2000 Watts / 3000 Watts (3 Phase)** |
| **Blade Speed** | **3000 rpm** |
| **Blade Diameter** | **250 mm** |
| **Blade Bore** | **30 mm** |
| **Max. Ripping Capacity – Right** | **730 mm** |
| **Max. Ripping Capacity – Left** | **370 mm** |
| **Bevel Capacity** | **47 to -2 Degrees** |
| **Max Depth of Cut at 90º** | **77 mm** |
| **Max Depth of Cut at 45º** | **52 mm** |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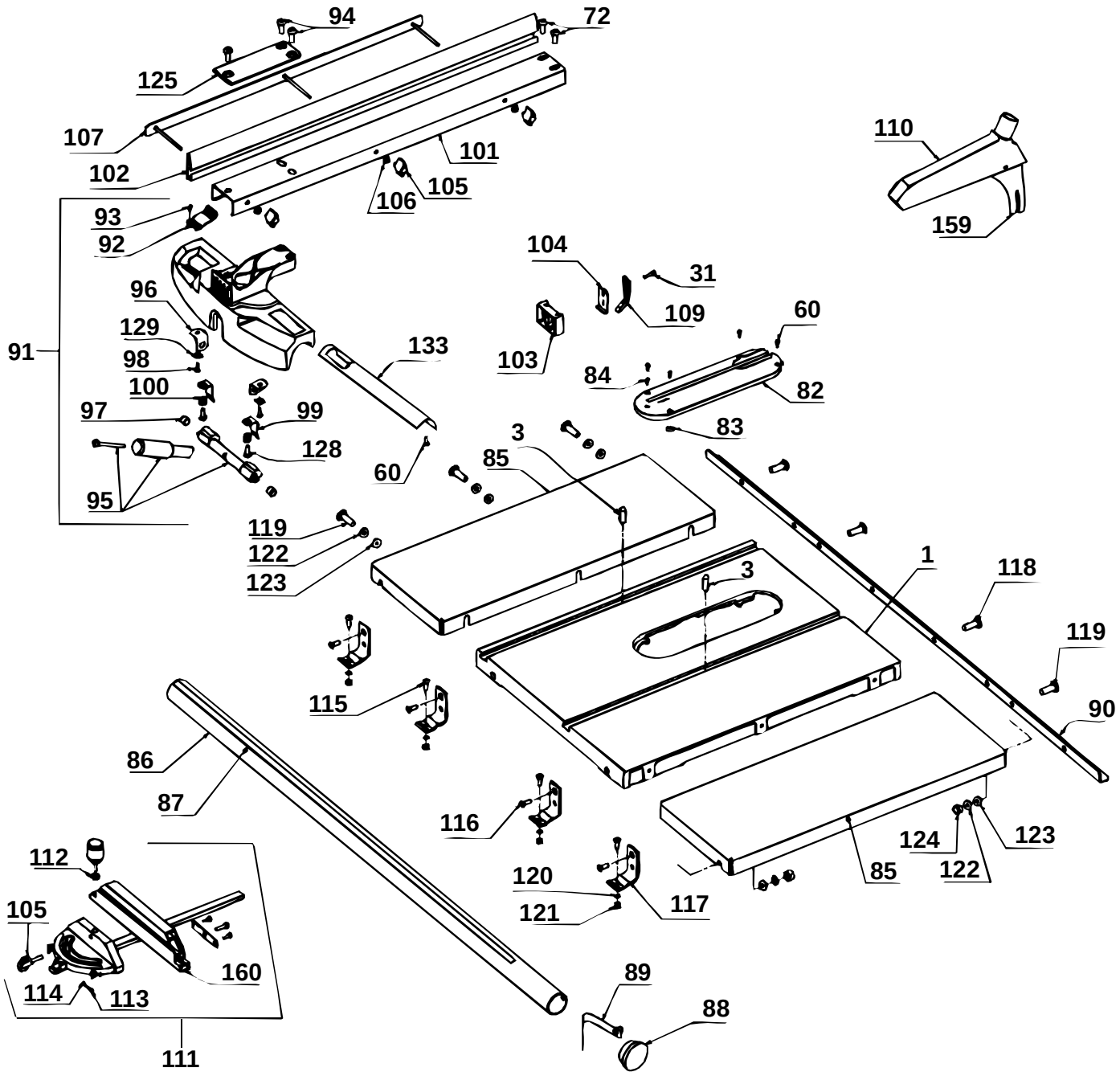
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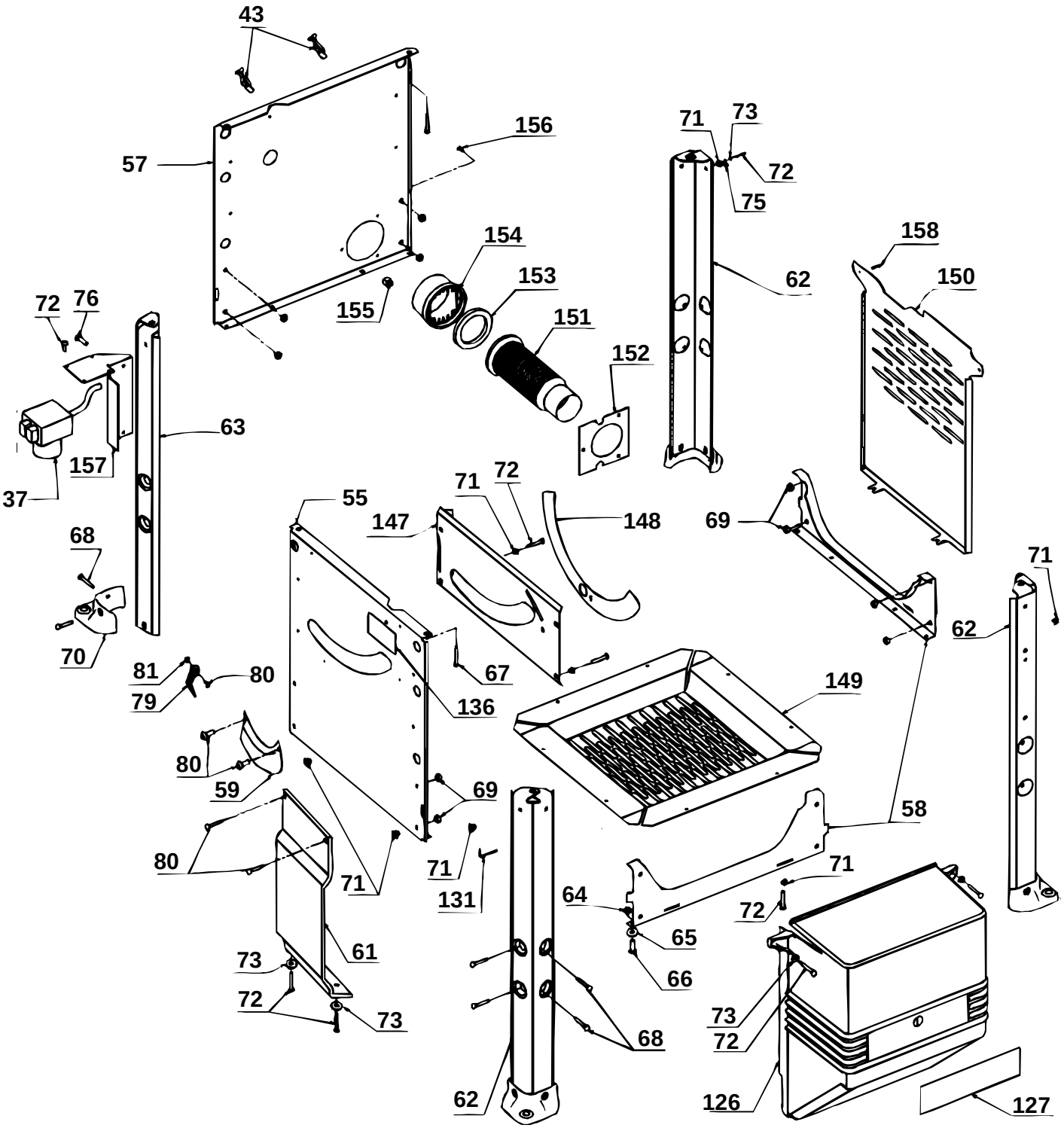
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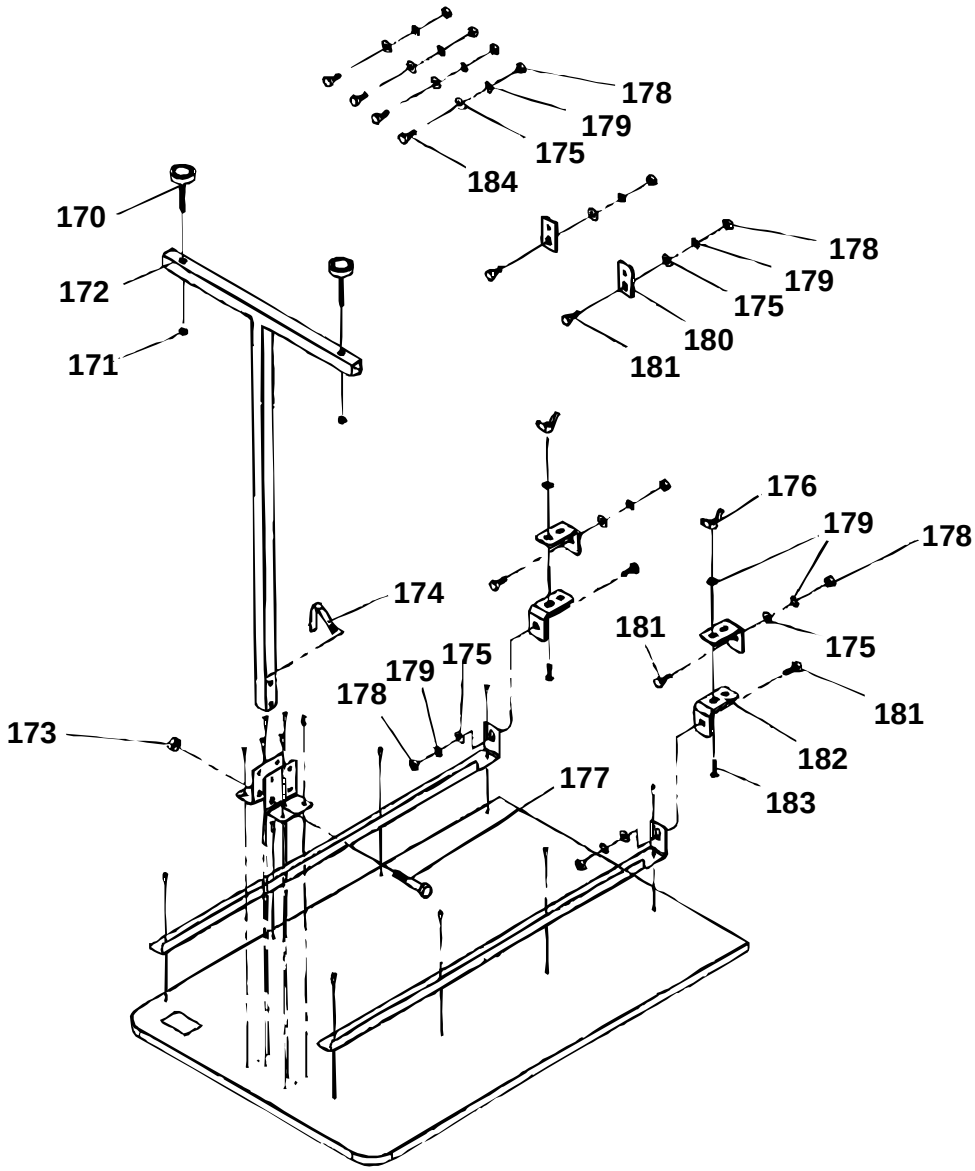
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Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DW746-----A Type : 1

| ITEM | | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|---|
| 1 | | TABLE | 389839-00 | 1 | |
| 3 | | SCREW | 153576-01 | 2 | |
| 4 | * | TRUNNION | 387164-01 | 1 | |
| 5 | | SCREW | 330045-39 | 6 | |
| 6 | * | FRONT BRACKET | 389615-00 | 1 | |
| 7 | | DRIVE SHAFT | 388410-00 | 2 | |
| 8 | * | PIN | 330036-08 | 4 | |
| 9 | * | WASHER | 389355-00 | 4 | |
| 10 | | SLEEVE BEARING | 85903-00 | 2 | |
| 11 | | WASHER SPRING | 389297-00 | 2 | |
| 12 | * | SLEEVE | 391048-00 | 2 | |
| 14 | * | WASHER | 389355-00 | 2 | |
| 15 | | BRACKET SA | 389875-01 | 1 | |
| 16 | | WASHER SPRING | 448373-00 | 1 | |
| 17 | | CIRCLIP | 389057-00 | 1 | |
| 18 | * | ARBOR | 387158-01 | 1 | |
| 19 | | SPINDLE SA | 388313-01 | 1 | |
| 20 | | PULLEY | 389298-00 | 2 | |
| 21 | | WASHER | 330016-05 | 2 | |
| 22 | * | NUT | 330021-08 | 2 | |
| 23 | | WASHER SPRING | 388932-00 | 1 | |
| 24 | | BEARING | 330003-16 | 1 | |
| 27 | | PLATE | 153404-02 | 2 | |
| 28 | * | BEVEL GEAR | 387160-00 | 1 | |
| 29 | | COVER | 388315-00 | 1 | |
| 30 | | SHROUD | 388314-00 | 1 | |
| 31 | | SCREW | 330019-13 | 5 | |
| 32 | | SCREW | 153778-01 | 4 | |
| 33 | | SPRING | 389254-00 | 1 | |
| 37 | | SWITCHBOX & CABLE | 389838-00 | 1 | T-1 PHASE |
| 37 | | SWITCHBOX & CABLE | 389838-01 | 1 | T-3 PHASE |
| 40 | * | MOTOR SA 1PH | 389888-00 | 1 | T-1 PHASE |
| 40 | * | MOTOR SA 3PH | 389892-00 | 1 | T-3 PHASE |
| 41 | | PULLEY | 389281-00 | 2 | |
| 42 | | SPACER | 389077-00 | 1 | |
| 43 | | CLIP | 388301-00 | 3 | |
| 46 | | SLEEVE | 153443-01 | 2 | |
| 47 | * | BOLT | 392457-00 | 1 | |
| 48 | * | LOCK NUT | 392458-00 | 1 | |

Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DW746-----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 49 | DUST EXTRACTOR | 388316-01 | 1 | |
| 50 | V-BELT | 389226-00 | 1 | T-1 PHASE |
| 50 | LINK BELT | 391471-00 | 1 | T-3 PHASE |
| 51 | OUTER FLANGE | 386764-02 | 1 | |
| 52 | NUT | 388956-00 | 1 | |
| 53 | CABLE TIE | 149138-03 | 2 | |
| 55 | PANEL.FRONT | 388284-00 | 1 | |
| 57 | PANEL LH | 388293-02 | 1 | |
| 58 | BRACE | 388297-00 | 2 | |
| 59 | BEVEL SCALE | 388289-00 | 1 | |
| 60 | SCREW | 330045-44 | 8 | |
| 61 | COVERPLATE | 389835-00 | 1 | |
| 62 | LEG | 388298-00 | 3 | |
| 63 | LEG FRONT LEFT HAND | 391100-00 | 1 | |
| 64 | NUT | 330015-02 | 4 | |
| 65 | WASHER | 98198-05 | 4 | |
| 66 | BOLT | 98023-20 | 4 | |
| 67 * | SCREW | 330045-39 | 4 | |
| 68 | SCREW | 330045-32 | 24 | |
| 69 | NUT | 389118-00 | 24 | |
| 70 | FOOT | 388300-00 | 4 | |
| 71 | GROMMET | 389147-00 | 17 | |
| 72 | SCREW | 330019-37 | 22 | |
| 73 | WASHER | 330016-02 | 5 | |
| 75 | CORD CLAMP | 153669-00 | 1 | |
| 76 | SCREW | 330045-24 | 2 | |
| 77 | HANDLE SA | 388306-00 | 2 | |
| 78 | LOCK KNOB | 388308-00 | 2 | |
| 79 | POINTER | 388309-00 | 1 | |
| 80 | SCREW | 330045-06 | 5 | |
| 81 | NUT | 389046-00 | 1 | |
| 82 | PLATE SA | 388292-01 | 1 | |
| 83 | CAM | 390858-00 | 1 | |
| 84 | SCREW | 330019-12 | 1 | |
| 85 | EXTENSION TABLE | 390955-00 | 2 | |
| 86 | RAIL | 389685-04 | 1 | |
| 87 | SCALE | 388250-02 | 1 | |
| 88 | END CAP | 388256-00 | 2 | |
| 89 | BUTTON | 380105-03 | 2 | |

Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DW746-----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 90 | RAIL REAR | 388253-00 | 1 | |
| 91 | FENCE HEAD SA | 389837-01 | 1 | |
| 92 | SCALE | 389238-00 | 1 | |
| 93 | SCREW | 153460-03 | 1 | |
| 94 * | SCREW | 98106-00 | 3 | |
| 95 * | HANDLE | 389645-00 | 1 | |
| 96 | BRACKET | 389687-00 | 2 | |
| 97 | SLEEVE | 153443-01 | 2 | |
| 98 | SCREW | 330045-32 | 2 | |
| 99 * | CAM LEVER | 388225-00 | 2 | |
| 100 | SPRING | 389043-00 | 2 | |
| 101 | FENCE BEAM | 388979-00 | 1 | |
| 102 | FENCE | 392660-00 | 1 | |
| 103 | CAP | 388238-00 | 1 | |
| 104 | RETAINER | 390484-00 | 1 | |
| 105 | KNOB | 147107-00 | 4 | |
| 106 | WASHER | 389354-00 | 3 | |
| 107 | PLATE SA | 389278-00 | 1 | |
| 109 | RETAINER | 390478-00 | 1 | |
| 110 | GUARD SA | 389883-00 | 1 | |
| 111 | MITRE FENCE | 389858-01 | 1 | |
| 112 | WASHER | 99361-14 | 1 | |
| 113 | SCREW | 98003-25 | 3 | |
| 114 | NUT | 98155-03 | 3 | |
| 115 | CARRIAGE BOLT | 98130-20 | 4 | |
| 116 | SCREW | 98204-30 | 4 | |
| 117 | SUPPORT BRACKET | 388257-00 | 4 | |
| 118 | BOLT | 98026-35 | 2 | |
| 119 | BOLT | 98026-25 | 8 | |
| 120 | WASHER | 98197-09 | 4 | |
| 121 | NUT | 330015-03 | 4 | |
| 122 | WASHER LOCK | 98197-07 | 14 | |
| 123 | WASHER | 330016-04 | 18 | |
| 124 | NUT | 330015-05 | 8 | |
| 125 | COVERPLATE | 389229-00 | 1 | |
| 126 | MOTOR COVER | 388299-00 | 1 | |
| 127 | IDENTITY LABEL | 388294-00 | 1 | |
| 128 | SCREW | 153460-02 | 2 | |
| 129 | WASHER | 389686-00 | 2 | |

Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DW746-----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 130 | WASHER SPRING | 390671-00 | 2 | |
| 131 | HOOK | 389874-00 | 1 | |
| 132 * | SHIM | 388317-00 | 1 | T-SHIM 1 |
| 132 * | SHIM | 388317-01 | 1 | T-SHIM 2 |
| 132 * | SHIM | 388317-02 | 1 | T-SHIM 3 |
| 132 * | SHIM | 388317-03 | 1 | T-SHIM 4 |
| 132 * | SHIM | 388317-04 | 1 | T-SHIM 5 |
| 132 * | SHIM | 388317-05 | 1 | T-SHIM 6 |
| 132 * | SHIM | 388317-06 | 1 | T-SHIM 7 |
| 133 | STRIP | 429902-00 | 1 | |
| 134 | PIN | 390672-00 | 1 | |
| 135 | RETAINER | 391382-00 | 1 | |
| 136 | LABEL | 390573-00 | 1 | |
| 138 | WASHER | 392459-00 | 2 | |
| 140 | SUPPORT BRACKET | 389598-00 | 1 | |
| 141 | RETAINER | 389065-00 | 1 | |
| 142 | SCREW | 389719-00 | 2 | |
| 143 | SHIM | 153403-01 | 4 | |
| 144 * | LINK | 389540-00 | 1 | |
| 145 | SCREW | 153639-00 | 2 | |
| 146 | SCREW | 98208-01 | 1 | |
| 147 | PLATE | 390030-00 | 1 | |
| 148 | SHEATH | 390249-00 | 1 | |
| 149 | BOTTOM PLATE | 388302-00 | 1 | |
| 150 | COVER REAR | 389671-00 | 1 | |
| 151 | HOSE | 389843-00 | 1 | |
| 152 | HOSE PLATE | 389845-00 | 1 | |
| 153 | FOAM | 389832-00 | 1 | |
| 154 | DUST PORT | 389833-00 | 1 | |
| 155 | NUT | 389147-01 | 3 | |
| 156 | SCREW | 330019-20 | 3 | |
| 157 | BRACKET | 389689-00 | 1 | |
| 158 | SCREW | 391160-00 | 1 | |
| 159 | RIVING KNIFE | 389541-00 | 1 | |
| 160 | FENCE | 389294-01 | 1 | |
| 170 | FOOT | 429898-08 | 2 | |
| 171 | NUT | 330015-03 | 2 | |
| 172 | LEG STAND | 392311-00 | 1 | |
| 173 | LOCK NUT | 429901-00 | 1 | |

Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DW746-----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 174 | BUTTON | 380105-04 | 1 | |
| 175 | WASHER | 330016-04 | 10 | |
| 176 | NUT WING | 429901-01 | 2 | |
| 177 | BOLT | 429901-02 | 1 | |
| 178 | NUT | 330015-05 | 10 | |
| 179 | WASHER LOCK | 98197-07 | 12 | |
| 180 | BRACKET | 389918-00 | 2 | |
| 181 | BOLT | 98026-25 | 6 | |
| 182 | BRACKET | 392331-00 | 4 | |
| 183 | BOLT | 429901-03 | 2 | |
| 184 | BOLT | 98026-35 | 4 | |
| 207 | PUSHROD | 389276-00 | 1 | |
| 208 | PUSH BLOCK | 393104-00 | 1 | |
| 800 * | GREASE | 429698-00 | 1 | |
| 836 * | SERVICE TOOL | 233802-00 | 1 | |
| 837 * | SERVICE TOOL | 233802-01 | 1 | |
| 838 * | SERVICE TOOL | 233802-02 | 1 | |
| 839 * | SERVICE TOOL | 233802-03 | 1 | |
| 840 | SPANNER SPECIAL | 559614-99 | 1 | |
| 841 | SPANNER SPECIAL | 559615-99 | 1 | |
| 846 * | PARTS PACK | 389642-01 | 1 | |

| | | |
|---|---|---|
| CAPACITY | | 250MM |
| DEPTH | | 79MM |
| VOLTAGE #1 | VOLTS | 230 |
| INPUT WATTS #1 | WATTS | 2700 |
| OUTPUT WATTS #1 | WATTS | 2000 |
| RPM #1 | | 3000 |
| FREQUENCY #1 | HZ | 50 |
| VOLTAGE #2 | VOLTS | 400 |
| INPUT WATTS #2 | WATTS | 3700 |
| OUTPUT WATTS #2 | WATTS | 2900 |
| RPM #2 | | 3000 |

*** = SEE REPAIR INSTRUCTIONS**

# R11306

**DW746-----A Contractors saw**

| Item No. | Note |
|---|---|
| 4, 6 | Trunnion brackets must be tight against the table. The front trunnion bracket is preset at the factory to be a precise distance from the front edge of the table. Do not loosen both the rear and front trunnion screws at the same time or the front to back orientation settings will be lost. |
| 132 | The shims to adjust the parallelism of the blade in the table are identified with a number and a different colour for each shim. Use the following chart to identify the shim size required :<br><br>Shim 1 - 0.21 - bright nickel plate<br>Shim 2 - 0.42 - bright nickel brass plate<br>Shim 3 - 0.60 - copper plate<br>Shim 4 - 0.75 - olive coloured zinc plate<br>Shim 5 - 0.90 - black oxide<br>Shim 6 - .105 - zinc and clear chromate<br>Shim 7 - .120 - zinc and yellow chromate<br><br>Please refer to the Repair Procedure information for details on the correct size and adjustments using these shims. |
| 836, 837, 838, 839 | Service tooling is available to carry out any alignment procedures. Please also refer to the Instruction manual for details of the set up and adjustment procedure. |
| 840,841 | Service tooling is available to carry out removal of motor pulley and Arbor assembly. |
| 846 | The parts pack includes the combination wrench, 5mm hex wrench, T50 torx driver, and blade wrench. |

**Lubrication.**

The following items need grease applying as follows :

| | |
|---|---|
| 9, 40 | Thin film of grease between the washer and motor bracket. |
| 12 | A thin coat of grease to inside of nylon bearing |
| 8, 14 | Apply 2 grams of grease between the pin and washer |
| 18 | Apply 6 grams of grease to the gear teeth. If replacing item 18 you must also replace items 19 and 24. |
| 28 | Apply 6 grams of grease to the gear teeth |
| 47 | Apply a coating of grease to the unthreaded section of the bolt |
| 95, 99 | Apply coating of grease to cam, and cam side |
| 144 | Apply coating of grease to surface of the link that contacts the cradle |

**Torques.**

| | |
|---|---|
| 5 | Torque to 24.8 – 31.6 Nm |
| 22 | Torque to 20.3-24.8Nm |
| 67 | Torque to 24.8-31.6 Nm |
| 94 | Torque to 15.8-18 Nm |

# New Parts

# DW746 - DE7460 - DE7461 - DE7464

# 250MM SAW TABLE

| Part Number | Part Description |
|---|---|
| 149138-03 | CABLE TIE |
| 152693-01 | TORX WRENCH 50 |
| 153404-02 | PLATE |
| 153443-01 | SLEEVE |
| 153460-02 | SCREW |
| 153460-03 | SCREW |
| 153576-01 | SCREW |
| 153778-01 | SCREW |
| 233802-00 | SERVICE TOOLING |
| 233802-01 | SERVICE TOOLING |
| 233802-02 | SERVICE TOOLING |
| 233802-03 | SERVICE TOOLING |
| 330015-05 | NUT |
| 330019-37 | SCREW |
| 330021-08 | NUT |
| 330045-39 | SCREW |
| 380105-03 | BUTTON |
| 380105-04 | BUTTON |
| 387158-01 | ARBOR |
| 387160-00 | BEVEL GEAR |
| 387164-00 | REAR BRKT |
| 387164-01 | REAR TRUNNION |
| 388225-00 | CAM LEVER |
| 388238-00 | CAP |

**Please DO NOT order any parts until a Service Change Note is published.**

| Part Number | Part Description |
|---|---|
| 388250-02 | SCALE |
| 388253-00 | RAIL REAR |
| 388256-00 | END CAP |
| 388257-00 | SUPPORT BRKT |
| 388284-00 | PANEL FRONT |
| 388289-00 | BEVEL SCALE |
| 388293-02 | PANEL LH |
| 388294-00 | ID LABEL |
| 388297-00 | BRACE |
| 388298-00 | LEG |
| 388299-00 | MOTOR COVER |
| 388300-00 | FOOT |
| 388301-00 | CLIP |
| 388302-00 | BOTTOM PLATE |
| 388306-00 | HANDLE SA |
| 388308-00 | LOCK KNOB |
| 388309-00 | POINTER |
| 388313-01 | SPINDLE SA |
| 388314-00 | SHROUD |
| 388315-00 | COVER |
| 388316-01 | D/EXT |
| 388317-00 | SHIM |
| 388317-01 | SHIM |
| 388317-02 | SHIM |
| 388317-03 | SHIM |
| 388317-04 | SHIM |
| 388317-05 | SHIM |
| 388317-06 | SHIM |
| 388410-00 | DRIVE SHAFT |
| 388932-00 | SPRING WASHER |
| 388956-00 | NUT |
| 388979-00 | FENCE BEAM |

**Please DO NOT order any parts until a Service Change Note is published.**

| Part Number | Part Description |
|---|---|
| 389043-00 | SPRING |
| 389046-00 | NUT |
| 389057-00 | CIRCLIP |
| 389065-00 | RETAINER |
| 389077-00 | SPACER |
| 389118-00 | NUT |
| 389147-00 | GROMMET |
| 389147-01 | NUT |
| 389226-00 | V BELT |
| 389229-00 | COVERPLATE |
| 389238-00 | SCALE |
| 389254-00 | SPRING |
| 389278-00 | PLATE SA |
| 389281-00 | PULLEY |
| 389294-01 | FENCE |
| 389297-00 | SPRING WASHER |
| 389298-00 | PULLEY |
| 389339-01 | WRENCH |
| 389354-00 | WASHER |
| 389355-00 | WASHER |
| 389540-00 | LINK |
| 389541-00 | R/KNIFE |
| 389598-00 | SUPPORT BRKT |
| 389615-00 | FRONT BRKT |
| 389642-01 | PARTS PACK |
| 389645-00 | HANDLE |
| 389671-00 | COVER REAR |
| 389685-04 | RAIL |
| 389686-00 | WASHER |
| 389687-00 | BRKT |
| 389689-00 | BRKT |
| 389719-00 | SCREW |

**Please DO NOT order any parts until a Service Change Note is published.**

| Part Number | Part Description |
|---|---|
| 389832-00 | FOAM |
| 389833-00 | DUST PORT |
| 389835-00 | COVERPLATE |
| 389837-01 | FENCE SA |
| 389838-00 | SWITCHBOX SA |
| 389838-01 | SWITCHBOX SA |
| 389839-00 | TABLE |
| 389843-00 | HOSE |
| 389845-00 | HOSE PLATE |
| 389858-01 | MITRE FENCE |
| 389874-00 | HOOK |
| 389875-01 | BRKT SA |
| 389883-00 | GUARD SA |
| 389888-00 | MOTOR SA |
| 389892-00 | MOTOR SA |
| 389918-00 | BRKT |
| 390030-00 | PLATE |
| 390249-00 | SHEATH |
| 390478-00 | RETAINER |
| 390484-00 | RETAINER |
| 390573-00 | LABEL |
| 390671-00 | SPRING WASHER |
| 390672-00 | PIN |
| 390955-00 | EXT TABLE |
| 391048-00 | SLEEVE |
| 391100-00 | LEG |
| 391160-00 | SCREW |
| 391382-00 | RETAINER |
| 391471-00 | LINK BELT |
| 392311-00 | LEG STAND |
| 392331-00 | BRKT |
| 392457-00 | BOLT |

**Please DO NOT order any parts until a Service Change Note is published.**

| Part Number | Part Description |
|---|---|
| 392458-00 | LOCK NUT |
| 392459-00 | WASHER |
| 392660-00 | FENCE |
| 393104-00 | PUSH BLOCK |
| 429898-08 | FOOT |
| 429901-00 | LOCK NUT |
| 429901-01 | WING NUT |
| 429901-02 | BOLT |
| 429901-03 | BOLT |
| 429902-00 | GLIDE STRIP |
| 85903-00 | BEARING |
| 98023-20 | BOLT |
| 98026-25 | BOLT |
| 98026-35 | BOLT |
| 98106-01 | SCREW |
| 98130-20 | BOLT |
| 98197-07 | WASHER |
| 98204-30 | SCREW |
| 98208-01 | SCREW |

**Any queries please contact the European Service Support Group**
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**Steve Hurt : 0044 1753 500830**
**Martin Chadwick : 0044 1753 500540**
**Sean Holden : 0044 1753 500583**

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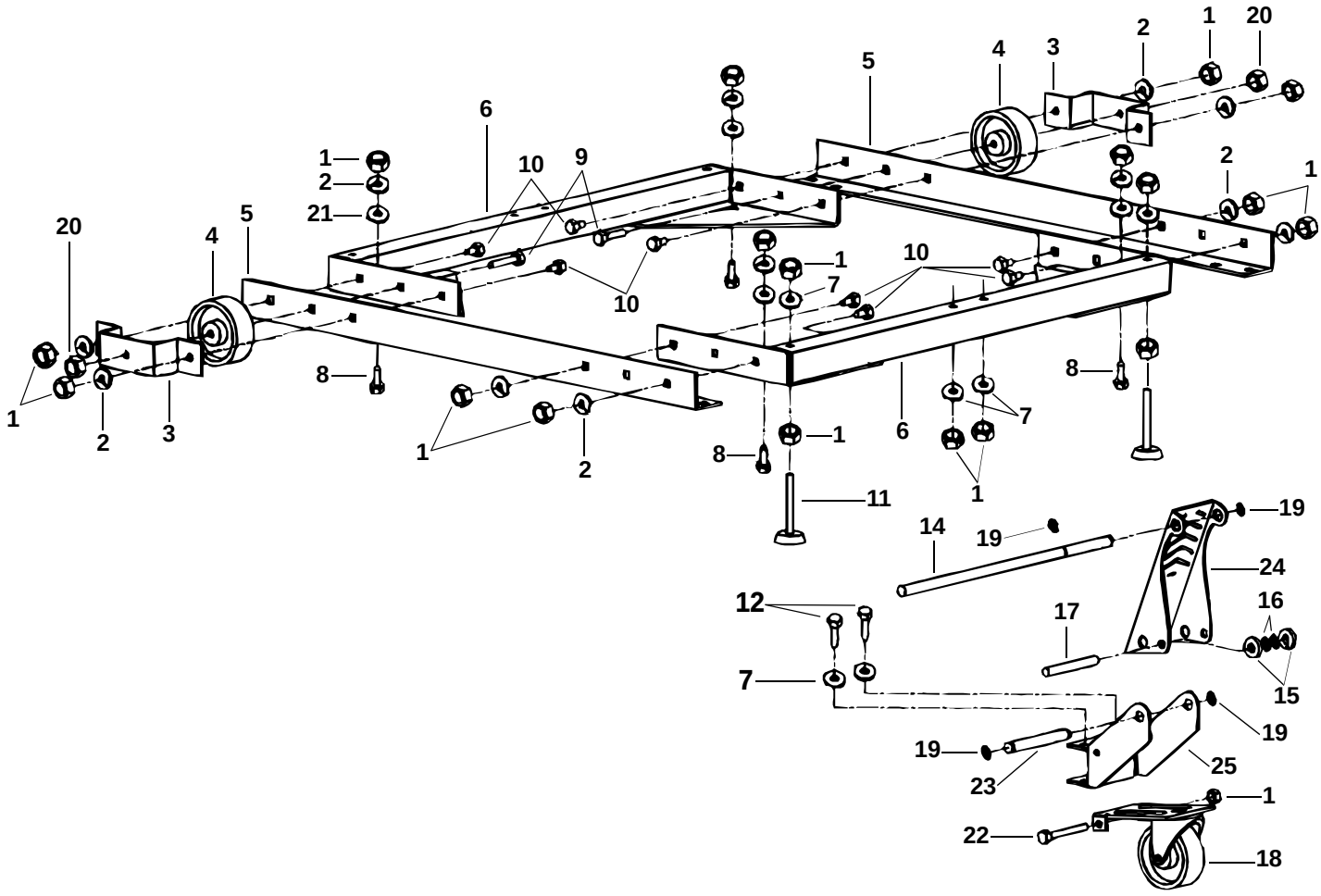
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Catalogue Number : DE7460----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 1 | NUT | 330015-03 | 19 | |
| 2 | WASHER LOCK | 429898-05 | 12 | |
| 3 | BRACKET | 429898-01 | 2 | |
| 4 | WHEEL | 429898-02 | 2 | |
| 5 | BRACE | 429898-03 | 2 | |
| 6 | FRAME | 429898-04 | 2 | |
| 7 | WASHER | 330016-03 | 6 | |
| 8 | CARRIAGE BOLT | 429898-06 | 4 | |
| 9 | BOLT | 429898-07 | 2 | |
| 10 | CARRIAGE BOLT | 98130-20 | 8 | |
| 11 | FOOT | 429898-08 | 2 | |
| 12 | BOLT | 429898-09 | 2 | |
| 14 | ROD | 429898-12 | 1 | |
| 15 | ROLLER | 429898-13 | 2 | |
| 16 | RETAINING PLATE | 429898-14 | 2 | |
| 17 | PIN | 429898-15 | 1 | |
| 18 | WHEEL SA | 429898-16 | 1 | |
| 19 | RETAINER | 429898-17 | 4 | |
| 20 | NUT | 429898-00 | 2 | |
| 21 | WASHER | 429898-11 | 4 | |
| 22 | BOLT | 429898-18 | 1 | |
| 23 | PIN | 429898-19 | 1 | |
| 24 | PEDAL | 429898-20 | 1 | |
| 25 | MOUNTING BRACKET | 429898-21 | 1 | |

# New Parts

# DE7460

# MOBILE BASE

| Part Number | Part Description |
|---|---|
| 429898-00 | NUT |
| 429898-01 | BRACKET |
| 429898-02 | WHEEL |
| 429898-03 | BRACE |
| 429898-04 | FRAME |
| 429898-05 | LOCK WASHER |
| 429898-06 | CARRIAGE BOLT |
| 429898-07 | BOLT |
| 429898-09 | BOLT |
| 429898-11 | WASHER |
| 429898-12 | ROD |
| 429898-13 | ROLLER |
| 429898-14 | RETAINING PLATE |
| 429898-15 | PIN |
| 429898-16 | WHEEL SA |
| 429898-17 | RETAINER |
| 429898-18 | BOLT |
| 429898-19 | PIN |
| 429898-20 | PEDAL |
| 429898-21 | MOUNTING BRACKET |

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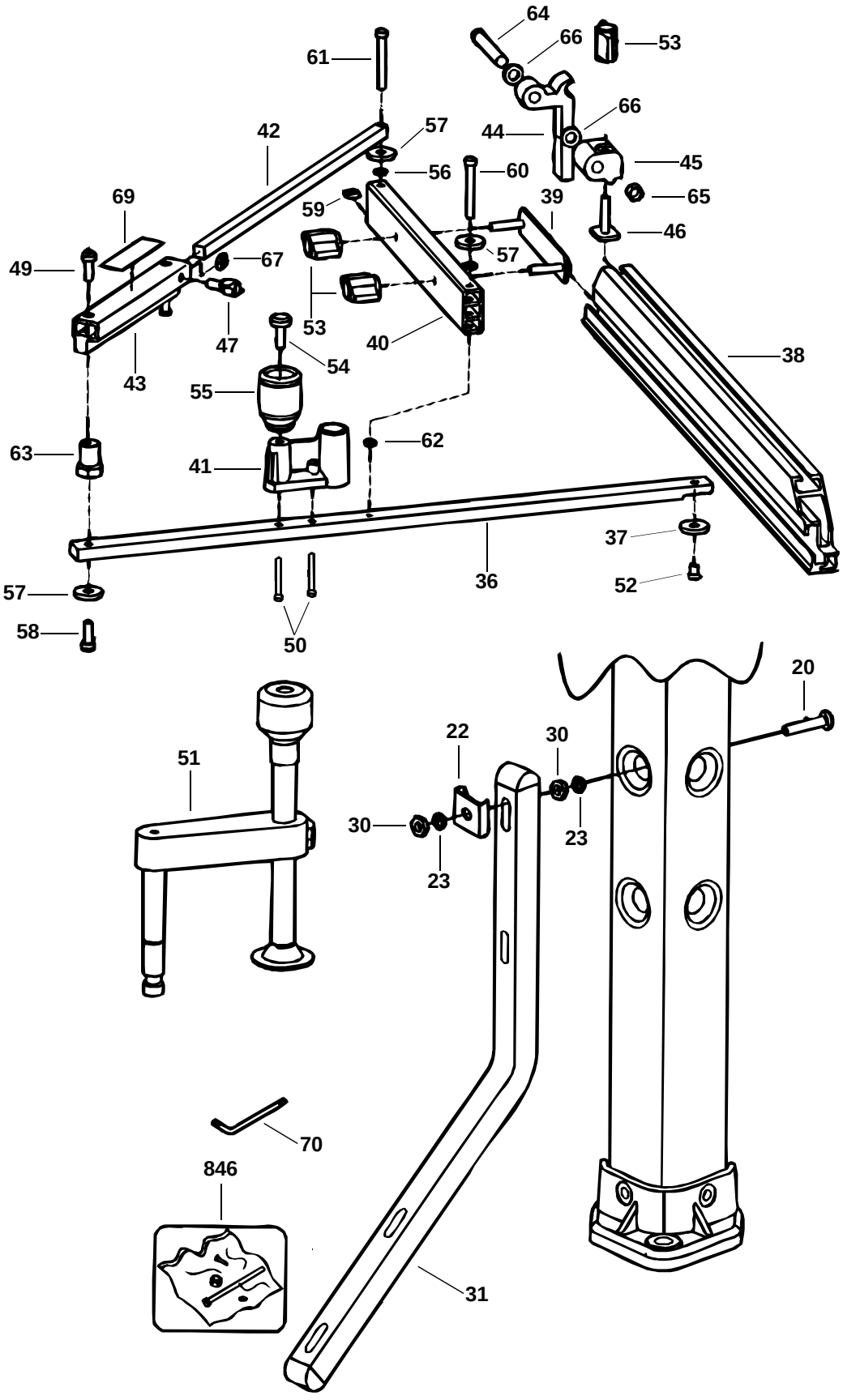
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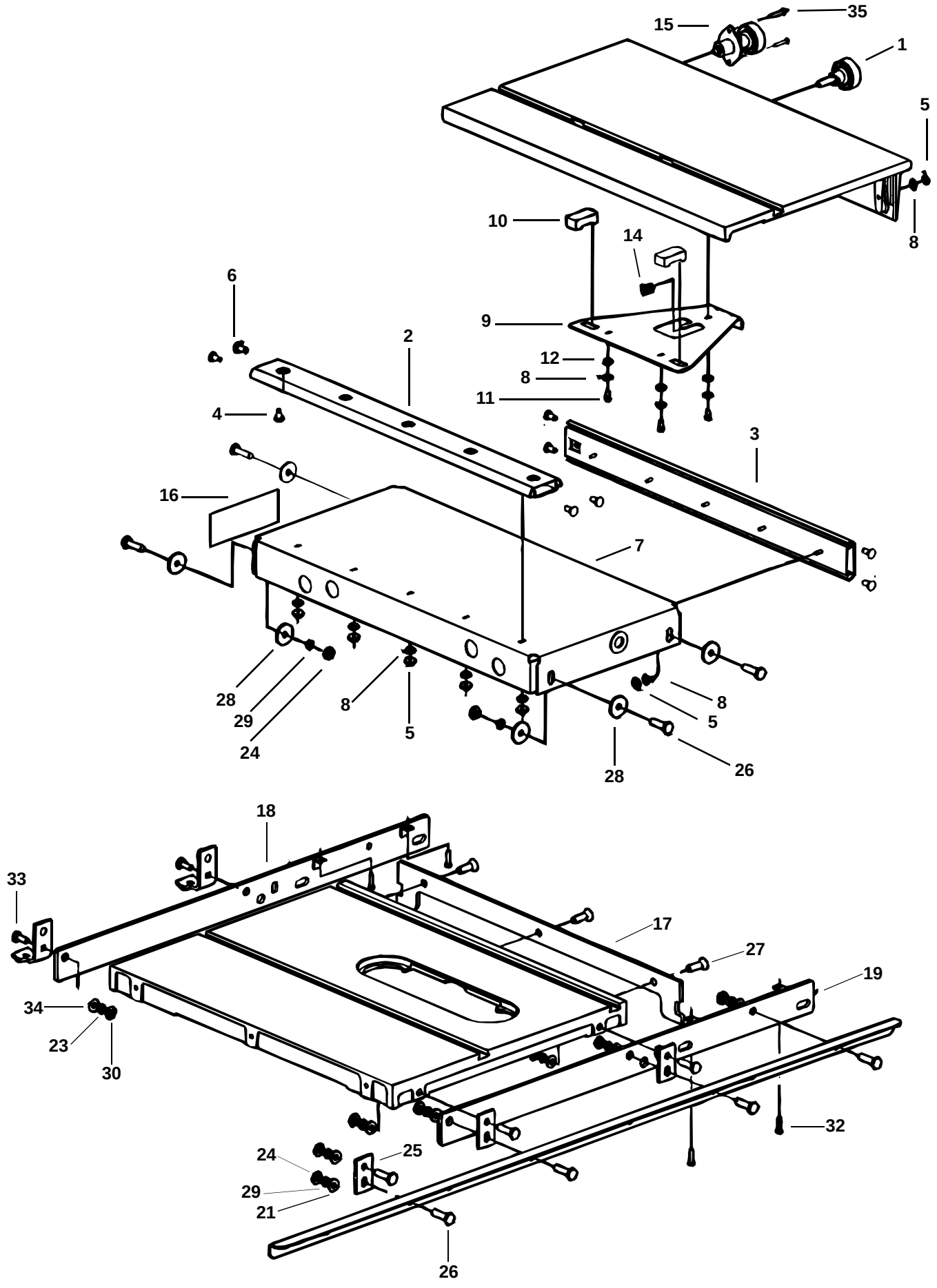
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Engineering Bill Of Material Date Created : 03/08/00

Catalogue Number : DE7461----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 1 | KNOB SA | 389903-00 | 1 | |
| 2 | SLIDE | 389907-00 | 1 | |
| 3 | SLIDE | 391400-00 | 1 | |
| 4 | SCREW | 153637-03 | 5 | |
| 5 | LOCK-NUT | 148641-00 | 15 | |
| 6 | PLUG | 390616-00 | 8 | |
| 7 | SUPPORT TABLE | 389913-00 | 1 | |
| 8 | WASHER | 330016-02 | 18 | |
| 9 | PLATE | 389905-00 | 1 | |
| 10 | BLOCK | 389906-00 | 2 | |
| 11 | SCREW.SPECIAL | 144949-00 | 3 | |
| 12 | WASHER | 449668-00 | 3 | |
| 14 | SPRING | 390621-00 | 1 | |
| 15 | LOCK BUTTON | 389910-00 | 1 | |
| 16 | NAMEPLATE | 394178-00 | 1 | |
| 17 | BRACKET | 389916-00 | 1 | |
| 18 | TABLE SUPPORT | 389915-00 | 1 | |
| 19 | TABLE SUPPORT | 389915-01 | 1 | |
| 20 | SCREW | 98025-55 | 4 | |
| 21 | WASHER | 330016-04 | 7 | |
| 22 | CLAMP | 391044-00 | 4 | |
| 23 | WASHER | 98197-09 | 10 | |
| 24 | NUT | 330015-05 | 11 | |
| 25 | BRACKET | 389918-00 | 3 | |
| 26 | BOLT | 98026-35 | 11 | |
| 27 | SCREW | 98204-30 | 3 | |
| 28 | WASHER | 330016-11 | 8 | |
| 29 | WASHER LOCK | 98197-07 | 11 | |
| 30 | NUT | 330015-03 | 10 | |
| 31 | STABILISER LEG | 390917-00 | 2 | |
| 32 | SCREW | 330045-24 | 4 | |
| 33 | CARRIAGE BOLT | 98130-25 | 2 | |
| 34 | WASHER | 330016-03 | 2 | |
| 35 | SCREW | 330045-14 | 2 | |
| 36 | MITRE GUIDE | 429916-00 | 1 | |
| 37 | WASHER LOCK | 429916-01 | 1 | |
| 38 | FENCE | 429916-02 | 1 | |
| 39 | CLAMPING BAR | 429916-03 | 1 | |
| 40 | FENCE | 429916-04 | 1 | |

Engineering Bill Of Material Date Created : 03/08/00

Catalogue Number : DE7461----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 41 | CLAMP | 429916-05 | 1 | |
| 42 | BRACE | 429916-06 | 1 | |
| 43 | BRACE | 429916-07 | 1 | |
| 44 | STOP | 429916-08 | 1 | |
| 45 | MOUNT | 429916-09 | 1 | |
| 46 | BOLT | 429916-10 | 1 | |
| 47 | KNOB SA | 286303-00 | 1 | |
| 48 | SCREW | 429916-12 | 1 | |
| 49 | SCREW | 429916-12 | 1 | |
| 50 | SCREW | 429916-13 | 2 | |
| 51 | CLAMP SA | 153650-04 | 1 | |
| 52 | SCREW | 429916-14 | 1 | |
| 53 | KNOB | 147107-00 | 3 | |
| 54 | SCREW | 153414-00 | 1 | |
| 55 | KNOB | 153417-00 | 1 | |
| 56 | WASHER | 429916-15 | 2 | |
| 57 | WASHER THRUST | 429916-16 | 3 | |
| 58 | BOLT | 429916-17 | 1 | |
| 59 | NUT | 429916-18 | 1 | |
| 60 | BOLT | 429916-19 | 1 | |
| 61 | BOLT | 429916-20 | 1 | |
| 62 | WASHER | 429916-21 | 1 | |
| 63 | ADJUSTER BLOCK | 429916-22 | 1 | |
| 64 | BOLT | 429916-23 | 1 | |
| 65 | NUT | 429916-24 | 1 | |
| 66 | WASHER NYLON | 429916-25 | 2 | |
| 67 | NUT | 429916-26 | 1 | |
| 69 | NAMEPLATE | 392340-00 | 1 | |
| 70 | DRIVER | 152693-02 | 1 | T-T40 TORX DRIVER |
| 70 | TORX 50 WRENCH | 152693-01 | 1 | T-T50 TORX DRIVER |
| 846 | ACCESSORY KIT | 389926-00 | 1 | |

# New Parts

# DE7461

# 76CM SLIDING TABLE

| Part Number | Part Description |
|---|---|
| 152693-02 | DRIVER |
| 153417-00 | KNOB |
| 153637-03 | SCREW |
| 153650-04 | CLAMP SA |
| 330016-11 | WASHER |
| 389903-00 | KNOB SA |
| 389905-00 | PLATE |
| 389906-00 | BLOCK |
| 389907-00 | SLIDE |
| 389910-00 | LOCK BUTTON |
| 389913-00 | SUPPORT TABLE |
| 389915-00 | TABLE SUPPORT |
| 389915-01 | TABLE SUPPORT |
| 389916-00 | BRACKET |
| 389926-00 | ACCESSORY KIT |
| 390616-00 | PLUG |
| 390621-00 | SPRING |
| 390917-00 | STAB LEG |
| 391044-00 | CLAMP |
| 391400-00 | SLIDE |
| 392340-00 | NAMEPLATE |
| 394178-00 | NAMEPLATE |
| 429916-00 | MITRE GUIDE |
| 429916-01 | WASHER LOCK |

**Please DO NOT order any parts until a Service Change Note is published.**

| Part Number | Part Description |
|---|---|
| 429916-02 | FENCE |
| 429916-03 | CLAMPING BAR |
| 429916-04 | FENCE |
| 429916-05 | CLAMP |
| 429916-06 | BRACE |
| 429916-07 | BRACE |
| 429916-08 | STOP |
| 429916-09 | MOUNT |
| 429916-10 | BOLT |
| 429916-12 | SCREW |
| 429916-13 | SCREW |
| 429916-14 | SCREW |
| 429916-15 | WASHER |
| 429916-16 | WASHER THURST |
| 429916-17 | BOLT |
| 429916-18 | NUT |
| 429916-19 | BOLT |
| 429916-20 | BOLT |
| 429916-21 | WASHER |
| 429916-22 | ADJ BLOCK |
| 429916-23 | BOLT |
| 429916-24 | NUT |
| 429916-25 | WASHER |
| 429916-26 | NUT |
| 98025-55 | SCREW |
| 98130-25 | CARRIAGE BOLT |

**Any queries please contact the European Service Support Group**
**Martin Cook : 0044 1753 500640**
**Steve Hurt : 0044 1753 500830**
**Martin Chadwick : 0044 1753 500540**
**Sean Holden : 0044 1753 500583**

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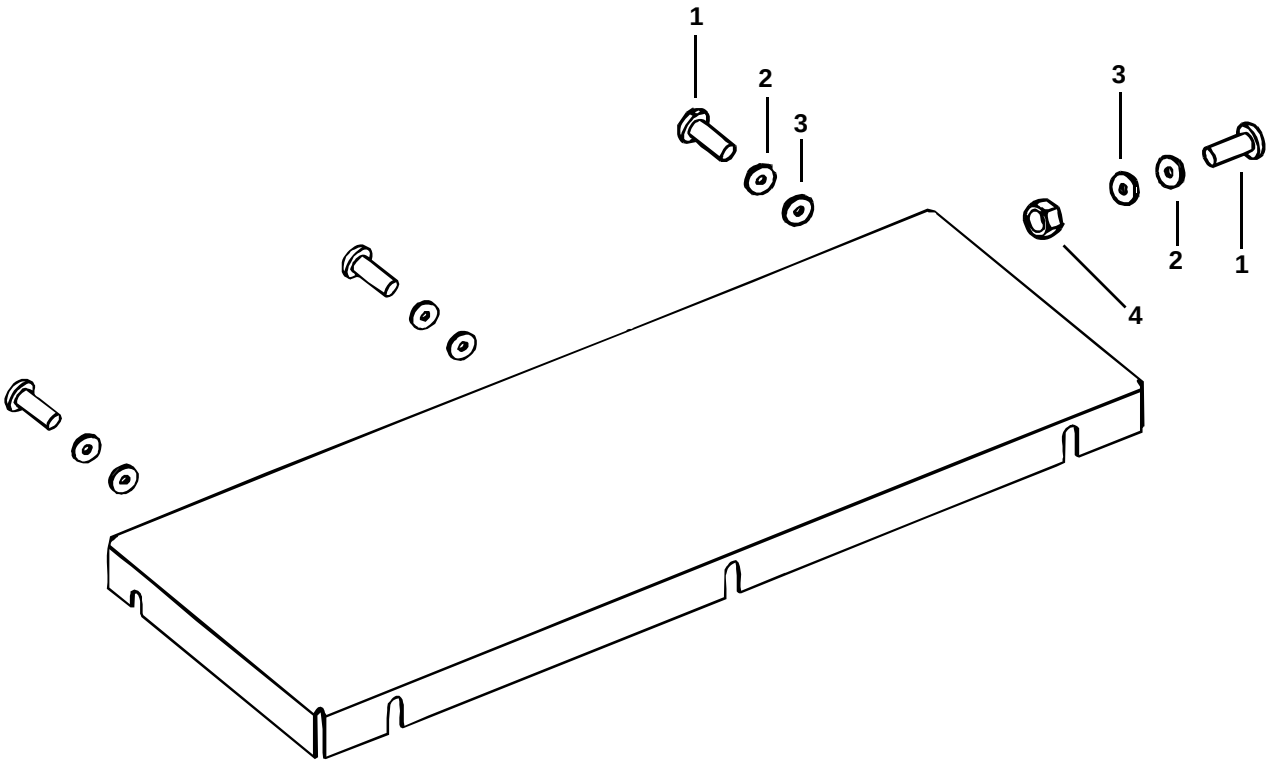
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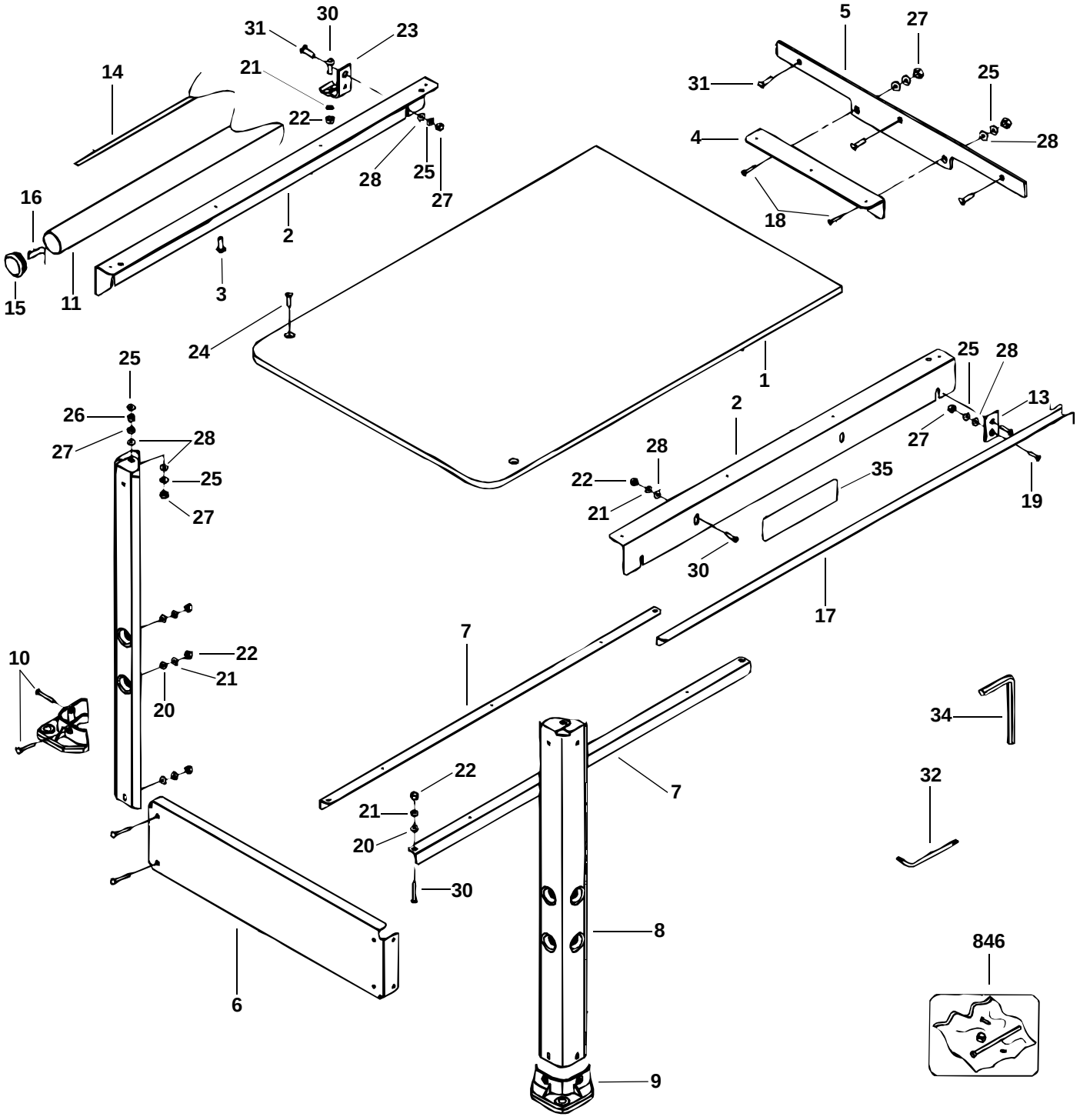
Engineering Bill Of Material Date Created : 03/08/00

Catalogue Number : DE7462----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 1 | BOLT | 98026-35 | 4 | |
| 2 | WASHER LOCK | 98197-07 | 4 | |
| 3 | WASHER | 330016-04 | 4 | |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Engineering Bill Of Material Date Created : 08/08/00

Catalogue Number : DE7464----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 1 | TABLE TOP | 392121-00 | 1 | |
| 2 | RAIL | 392122-00 | 2 | |
| 3 | SCREW | 429920-00 | 11 | |
| 4 | MOUNTING BRACKET | 392123-00 | 1 | |
| 5 | SUPPORT BRACKET | 392126-00 | 1 | |
| 6 | SUPPORT | 392124-00 | 1 | |
| 7 | RAIL | 392125-00 | 2 | |
| 8 | LEG | 388298-00 | 2 | |
| 9 | FOOT | 388300-00 | 2 | |
| 10 | SCREW | 330045-32 | 15 | |
| 11 | RAIL | 389685-05 | 1 | |
| 13 | BRACKET | 389918-00 | 3 | |
| 14 | SCALE | 388250-03 | 1 | |
| 15 | END CAP | 388256-00 | 2 | |
| 16 | BUTTON | 380105-03 | 2 | |
| 17 | RAIL | 391764-00 | 1 | |
| 18 | BOLT | 98026-25 | 5 | |
| 19 | BOLT | 98026-35 | 8 | |
| 20 | WASHER | 330016-03 | 19 | |
| 21 | WASHER | 98197-09 | 25 | |
| 22 | NUT | 330015-03 | 25 | |
| 23 | SUPPORT BRACKET | 388257-00 | 1 | |
| 24 | SCREW | 98204-80 | 2 | |
| 25 | WASHER LOCK | 98197-07 | 20 | |
| 26 | NUT | 330015-08 | 6 | |
| 27 | NUT | 330015-05 | 13 | |
| 28 | WASHER | 330016-04 | 22 | |
| 30 | CARRIAGE BOLT | 98130-20 | 11 | |
| 31 | SCREW | 98204-30 | 6 | |
| 32 | DRIVER | 152693-02 | 1 | T-T40 TORX DRIVER |
| 32 | TORX 50 WRENCH | 152693-01 | 1 | T-T50 TORX DRIVER |
| 34 | WRENCH 6 MM | 385928-00 | 1 | |
| 35 | WARNING LABEL | 394386-00 | 1 | |
| 846 | ACCESSORY KIT | 392601-00 | 1 | |

# New Parts

# DE7464

# 133CM FIXED RAIL EXT

| Part Number | Part Description |
|---|---|
| 330015-08 | NUT |
| 385928-00 | WRENCH 6MM |
| 388250-03 | SCALE |
| 389685-05 | RAIL |
| 391764-00 | RAIL |
| 392121-00 | TABLE TOP |
| 392122-00 | RAIL |
| 392123-00 | MOUNTING BRACKET |
| 392124-00 | SUPPORT |
| 392125-00 | RAIL |
| 392126-00 | SUPPORT BRACKET |
| 392601-00 | ACCESSORY KIT |
| 394386-00 | WARNING LABEL |
| 429920-00 | SCREW |
| 98204-80 | SCREW |

**Any queries please contact the European Service Support Group**
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**Martin Chadwick : 0044 1753 500540**
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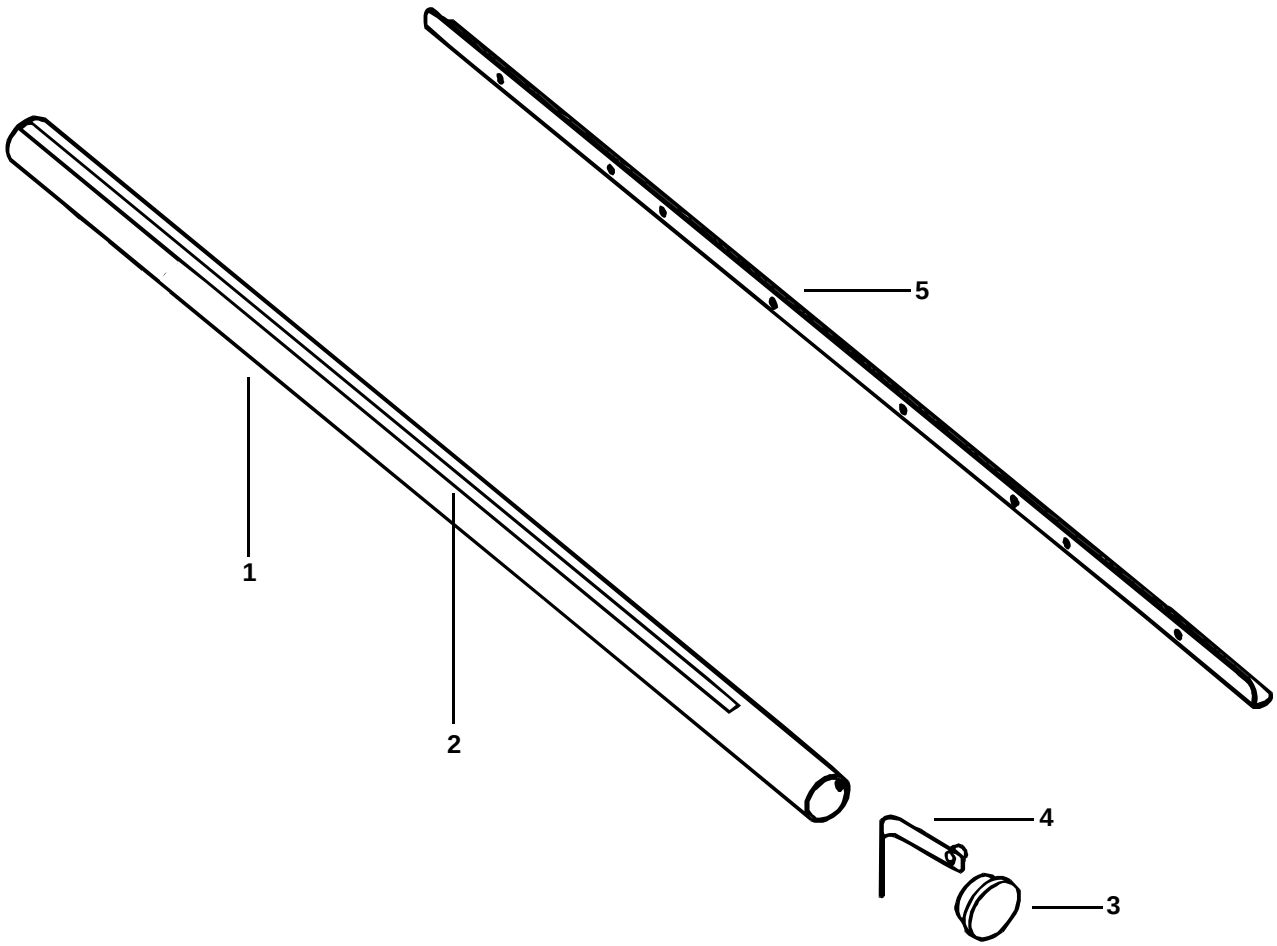
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Engineering Bill Of Material Date Created : 03/08/00

Catalogue Number : DE7468----A Type : 1

| ITEM | DESCRIPTION | PART NO. | QTY | MARKET VARIANT |
|---|---|---|---|---|
| 1 | RAIL | 389685-04 | 1 | |
| 2 | SCALE | 388250-02 | 1 | |
| 3 | END CAP | 388256-00 | 2 | |
| 4 | BUTTON | 380105-03 | 2 | |
| 5 | RAIL REAR | 388253-00 | 1 | |

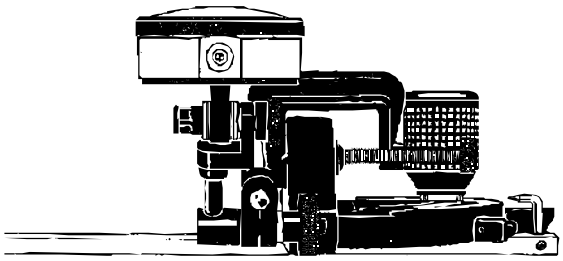
**Equipment Needed:**

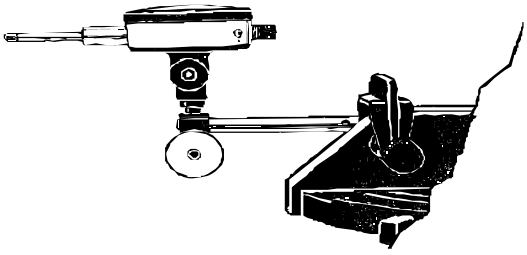
The following pieces of equipment are needed to properly align the saw.

| Description | Part Number | Qty |
|---|---|---|
| C-Clamp with 5/16” shank | 233802-00 | 1 |
| Dial Indicator | 233802-01 | 1 |
| Holder with 1/4” shank | 233802-02 | 1 |
| Clamp with holes for 1/4” and 5/16” shanks | 233802-03 | 1 |

**Assembly:**

1. In the indicator box there is a small piece of paper with diagrams on both sides. Use these diagrams as reference as you continue with this section.
2. In the dial indicator box you will find two tolerance hands. They simply snap onto the face of the indicator. Also in the box you will find a bezel clamp and thumb screw.
3. In the top of the indicator there is a small Phillips head screw. Remove this screw and replace it with the bezel clamp, and thumb screw.
4. Follow the diagrams below to attach the indicator to the C-Clamp.

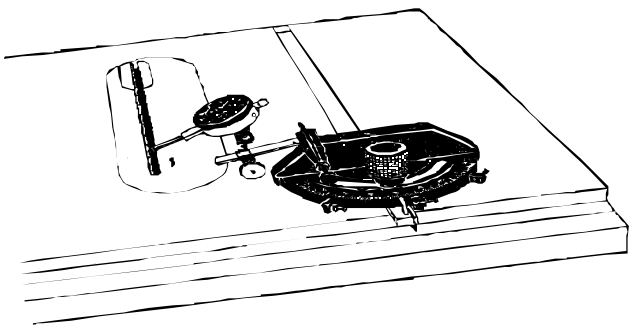




**How to read the indicator :**

Each mark on the indicator face is .001”. The total travel for the indicator pointer is 1 The outer black ring rotates so that you can zero the indicator. The bezel clamp will prevent the outer ring from rotating.

**<u>BLADE ALIGNMENT</u>:**



## BLADE ALIGNMENT CONTINUED

### BLADE POSITIONING (LEFT TO RIGHT)

***Objective:***

To insure the blade is properly located (side to side) within the throat plate slot. This procedure sets the initial adjustment before checking for parallelism.

***Note:*** **The front trunnion bracket (ITEM 6) is preset at the factory to be a precise distance from the front edge of the table. Do not loosen both the rear trunnion and front trunnion screws at the same time or proper front to back orientation will be lost.**

***Procedure:***

1. Bevel the saw to 0 and raise the blade fully. Use a square to insure the blade is exactly at 0.
2. The distance from the right edge of the left miter gauge slot to the left side of the blade should be 5-5/8" (+.013"/-.035"). Measurement should be made directly over the arbor. If is does not fall within this range go to STEP 3, otherwise skip to page 3.
3. Break the rear trunnion screws (ITEM 5) loose then tighten until slight resistance is felt.
4. With your ruler now towards the rear of the blade, use a mallet to tap the rear trunnion bracket side to side until the distance described in STEP 2 is obtained. **Note:** Further tightening of the trunnion screws (ITEM 5) may be necessary if the trunnion springs back to its original position after tapping.
5. While tightening the trunnion screws (ITEM 5), push the rear trunnion bracket (ITEM 4) towards the cradle (ITEM 15) to minimize end play. Measure the distance to the blade again to make sure the trunnion did not shift.
6. **Grab the cradle (ITEM 15) and check for any fore/aft movement. Adjust rear trunnion in towards cradle if necessary.**
7. Break the front trunnion screws loose (ITEM 5) then tighten until slight resistance is felt.
8. With your ruler now towards the front of the blade, use a mallet to tap the front trunnion bracket side to side until the distance described in STEP 2 is obtained.
9. While tightening the trunnion screws (ITEM 5), **push the front trunnion bracket (ITEM 4) towards the cradle (ITEM 15) to minimize end play.** Measure the distance to the blade again to make sure the trunnion did not shift.
10. Grab the cradle (ITEM 15) and check for any fore/aft movement. Adjust rear trunnion in towards cradle if necessary.
11. Next follow BLADE ALIGNMENT PROCEDURE at 0 BEVEL on page 3.

**BLADE ALIGNMENT CONT'D.**

### Blade Alignment (Parallelism) at 0° Bevel

***Objective:***

To assure that the tolerance, from the front of the blade to the rear of the blade, (with respect to the miter gauge slot on the right side of the table) is within design specifications.

***Procedure:***

1. Raise blade height to full up position then back off a half a turn.
2. Slide the miter gauge assembly (ITEM 111) into the slot on the right side of the table. Make sure the slot is free of any debris.
3. Clamp the alignment fixture to the miter gauge head so that the indicator is pointing towards the blade (See drawings on page 2).
4. Slide the whole assembly so that the indicator touches a blade tooth at the front of the blade (reference above picture). The indicator should also be down near the table surface.
5. Adjust the fixture so the indicator is not in contact with any carbide tips.
6. Note where the needle is on the indicator. The allowable tolerance for the blade at 0° from the front of the blade to the rear is +/-.0008" over 8.25".
7. Slide the fixture forward while rotating the blade and measure the SAME tooth now at the rear of the blade. Be sure to keep the indicator off the painted edge and the carbide tooth.
8. Note what the indicator reads. If the measurement is less than the allowable tolerance, STOP and go to the instructions for the blade at 45°. If it is more, then CONTINUE.
9. Break rear trunnion screws (ITEM 5) loose then tighten until slight resistance is felt.
10. Using a mallet, tap the rear trunnion bracket side to side until the rear indicator measurement is within the allowable tolerance. **Note:** Further tightening of the trunnion screws (ITEM 5) may be necessary if the trunnion springs back to its original position after tapping.
11. While tightening the trunnion screws (ITEM 5), push the rear trunnion bracket (ITEM 4) towards the cradle (ITEM 15) to minimize end play and pay attention to the indicator face as to assure the needle stays within tolerance.
12. Garb the cradle (ITEM 15) and check for any fore/aft movement. Adjust rear trunnion in towards cradle if necessary.
13. Recheck distance from left miter slot to the blade again as described on PAGE 3 STEP 2.

### Bevel Blade to 45

***Objective:***

Same as above except this time the blade is beveled to 45.

***Procedure:***

1. The allowable tolerance for the blade at 45 from the front of the blade to the rear is +/-.016" over 8.25".
2. With the indicator at the front of the blade, note the needle reading.
3. Slide the fixture forward while rotating the blade and measure the SAME tooth now at the rear of the blade. Be sure to keep the indicator off of the painted edge and the carbide tooth.
4. Note what the indicator reads at the rear.
5. Subtract the reading at the rear from the reading at the front. If the value is .016" or less, unit is within specifications. If over .016", note value and whether positive or negative. Each shim is identified by colour and by an I.D. number (1-7). Refer to the following charts to select the proper shim:

| Reading | Shim Size | Reading | Shim Size |
|---|---|---|---|
| +.031-.033" | 5 shim sizes smaller | -.031-.033" | 5 shim sizes larger |
| +.025-.029" | 4 shim sizes smaller | -.025-.029" | 4 shim sizes larger |
| +.021-.023" | 3 shim sizes smaller | -.021-.023" | 3 shim sizes larger |
| +.017-.019" | 2 shim sizes smaller | -.017-.019" | 2 shim sizes larger |

| Part Number | Thickness | I.D.# | Finish |
|---|---|---|---|
| 388317-00 | .021" | 1 | Bright nickel plate |
| 388317-01 | .042" | 2 | Bright nickel brass plate |
| 388317-02 | .060" | 3 | Copper plate |
| 388317-03 | .075" | 4 | Olive drab zinc plate |
| 388317-04 | .090" | 5 | Black oxide |
| 388317-05 | .105" | 6 | Zinc and clear chromate |
| 388317-06 | .120" | 7 | Zinc and yellow chromate |

6. If out of parallel, bevel back to 0 stop, then back off two full turns.
7. Loosen right hand rear trunnion bracket screw (ITEM 5) two full turns. Remove the shim and note its I.D. number. Then select the proper shim from the chart above to insert in its place. For example, if the I.D. number is 2 and the shim size needs to be 3 sizes larger, select shim part number 388317-04.
8. Retighten trunnion bracket screw.
9. Loosen left hand rear trunnion bracket screw (ITEM 5) two full turns, remove shim and replace it with the same size used in STEP 7 above.
10. Retighten trunnion bracket screw.
11. Garb the cradle (ITEM 15) and check for any fore/aft movement. Adjust rear trunnion in towards cradle if necessary.
12. Repeat BLADE ALIGNMENT AT 0 BEVEL on PAGE 3 to insure the blade is still parallel to the miter gauge slot.

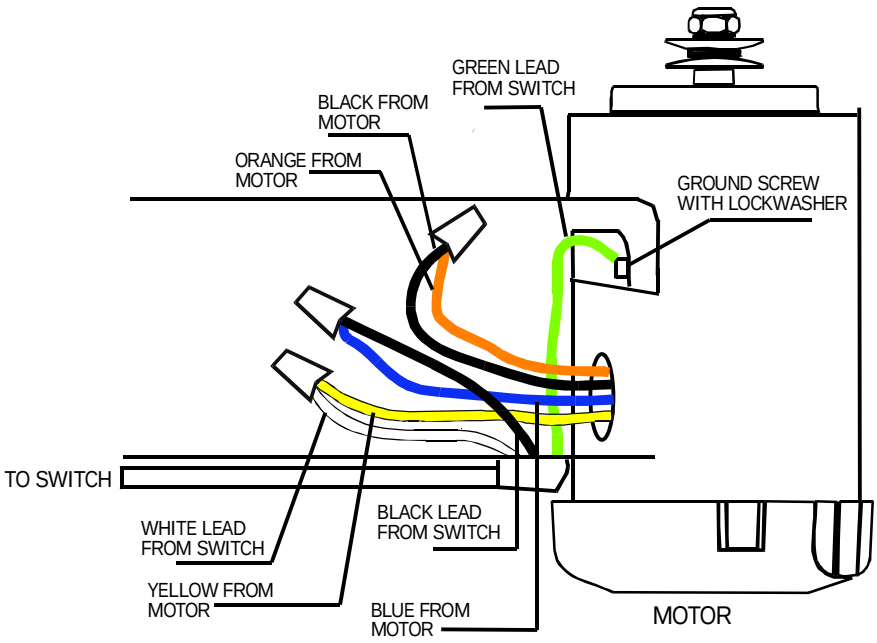
## WORM GEAR

***Objective:***

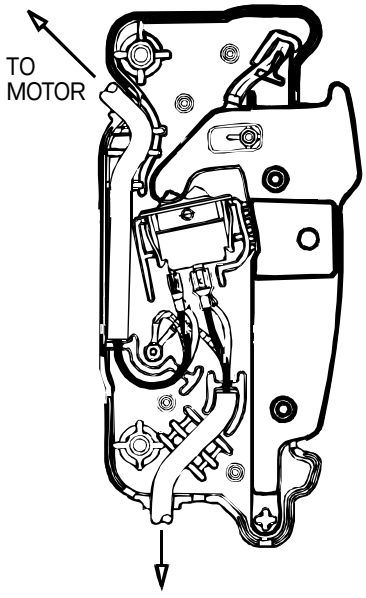
Bevel worm should turn smoothly through entire range without binding.

***Procedure:***

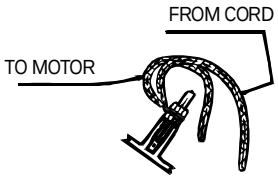
1. Bevel the saw to 0° and loosen the two bevel gear screws (ITEM 5) one-quarter turn.
2. Loosen left (bevel) stop screw (ITEM 3) until top of screw is flush with bottom of miter gauge slot.
3. Then bevel until 0° stop is solidly engaged.
4. To obtain proper gear clearance, rotate bevel crank wheel clockwise three full turns while at the same time keeping downward pressure on the crank wheel.
5. Then tighten the bottom bevel gear screw (ITEM 5) first then tighten the top screw. Final torque should be 33.9Nm.
6. Bevel to 45° and back to 0° to verify that no binding occurs at any point in the range. If binding occurs, loosen bevel gear screws (ITEM 5) one-quarter turn and go back to STEP 3.
7. Follow the ADJUST BEVEL STOP procedures in the Instruction Manual supplied with the machine.

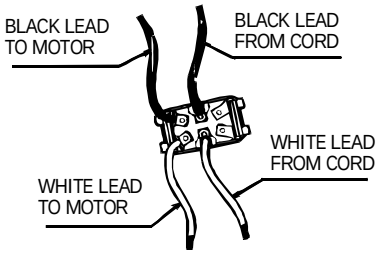



GROUNDING POST

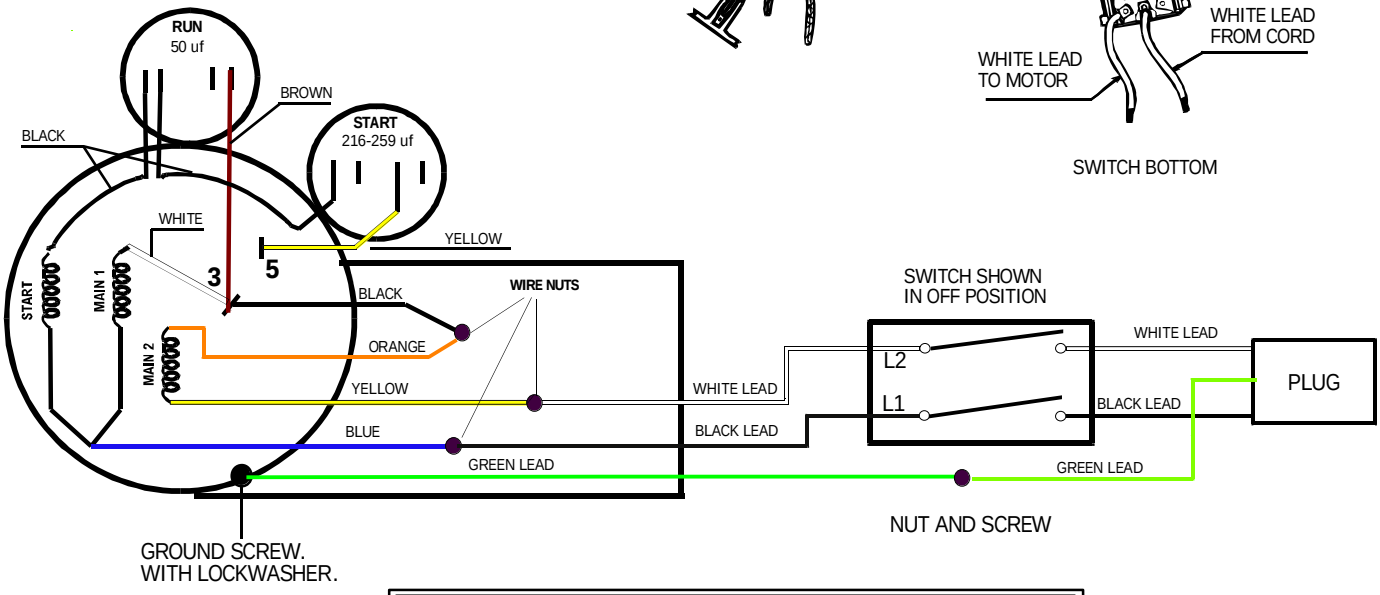



SWITCH




SWITCH BOTTOM




NUT AND SCREW

GROUND SCREW. WITH LOCKWASHER.

| ENGLISH | FRENCH | ITALIAN | GERMAN |
|---|---|---|---|
| BLACK | NOIR | NERO | SCHWARZ |
| WHITE | BLANC | BIANCO | WEISS |
| BROWN | BRUN | MARRONE | BRAUN |
| BLUE | BLEU | BLU | BLAU |
| YELLOW | JAUNE | GIALLO | GELB |
| GREEN | VERT | VERDE | GRUN |
| ORANGE | ORANGE | ARANCIO | ORANGE |

©

# PRODUCT PHOTOGRAPH

## DW746

# *DW746 CONTRACTORS SAW - STRIPDOWN REPAIR PROCEDURE*

If the dust extractor (49) needs cleaning/clearing, loosen the twoscrews (31) and pull off from the shroud (29/30).

To remove/change the belt (50) turn the rise and fall handle (77) to it's lowest point, lift the motor assembly to release the tension on the belt, which can now be removed. The belt is supplied fitted to the machine. If the belt shape is distorted this can cause excessive vibration.

## Total Strip Down

Remove all Accessories from maintable, refer to users manual supplied.

Remove the power cable.

Remove the blade.

Undo the 2 retainingscrews (72) holding the dust shroud (126) and remove.

Wind the handle (77) to set the cutting depth at it's maximum.

The table-top should be protected at all times to prevent any damage to the surface whilst the tool is being worked on. Before turning the machine over either strap a protective sheet to the top or alternativly place a protective sheet on the floor.

The table can be turned over by carefully tilting and lowering on to the protective sheet. Care must be taken as the machine weighsapproximatly 126 Kgs. The motor will become loose on the belt but will slowly fall onto the main casting.

## Removal of the legs and side panels.

- Remove the 8 screws (72) retaining the bottom cover (149) and put to one side. The 2 screws holding theDEWALT logo (61) also have a washer (73).
- Take the belt (50) of off the motor and pulley.
- Slacken the 2 screws (31) holding the dust extraction hose (49) and pull out of the shroud (29 & 30).
- Undo the retainingknobs (78) and remove the 45º and the rise and fall handles (77).
- Remove the 0º to 45º pointer (79,80 & 81).
- Remove the 2 screws (76) holding the switch bracket (157) to the front left hand leg.
- Undo the 2 screws (158) holding the back panel (150) and remove.
- Remove the 4 screws (67 ) holding the legs and panels to the table. Lift slightly and move the assembly forward and to the right, place the assembly to one side.

With the side panels and legs removed from the machine it is now possible to access the main components of the machine.

## Motor assembly removal

Lift the complete motor assembly back to slowly release the main spring (33), the motor will need to be supported at all times. The main spring "unscrews" off of the casting mounting point (15). Note that the spring only fits onto the casting one way.
Remove the clip securing the pivot pin in place. Push the pin through the bracket and lift off the motor assembly. (40).

The pulleys (41) on the motor spindle need a special spanner (840) to hold them so that the lock-nut (22) can be removed. The lock-nut is removed anti-clockwise (normal thread), and the washer (21), pulley's (41), and spacer (42) can be removed. Align the flats on the pulley's to fit the flat on the rotor spindle, noting the correct way round to re- fit them.

The motor and bracket are only available as a sub assembly from the supplier, remove the inspection plate and rubber seal from the motor bracket to access the connector block, and disconnect the mains leads if required.

With the motor removed the dust shroud (29/30) can be taken off, remove the four screws (32) and lift off the complete assembly.

## Blade Arbor S.A

The blade arbor S.A. and pulley's can be removed as follows,
Take off the nut (52) and outer clamp washer (51), then by holding the inner clamp washer of the blade arbor assembly (19) with a pin spanner (841), remove the pulley nut (22 anti-clockwise).
The washer (21) and two pulley's (20) can then be removed from the blade arbor (19).
Carefully tap the end of the spindle and knock it from the pulley side through the arbor housing (18). The blade spindle, inner clamp washer, and bearing are only available as a sub assembly.
The inner clamp is machined during assembly in the factory to ensure accuracy.
A spring washer (23) sits behind the pulley bearing (24) in the arbor housing (18).

## Worm drives

Before removing the worm drive (7) on the rise and fall gear (18), fit the handle (77) and wind to set the cutting depth at it's maximum (with the arbor housing (18) resting against the table top) otherwise you will not be able to fully screw out the gear as the split pin will not pass overthe arbor housing gear teeth. To remove the worm drive (7), first remove the winding handle (77) and knock the split pin (8) through the worm drive gear spindle, remove the spacer (10), spring washer (11), steel washer (9), and nylon sleeve (12). The gear will now screw out and through the main cradle housing (15) (take care not to lose the sleeve and spacer).

You can now remove the arbor housing (18) if required by taking off thecirclips (17 & 141) and washer (16) from the cradle housing pin, and then ease the arbor housing off the pin.

Before removing the worm drive (7) for the bevel gear bracket (28), fit the handle (77) and wind to set the bevel cut position to 45º otherwise you will not be able to fully screw out the gear as the split pin will not pass over the bevel gear bracket gear teeth.
To remove the worm drive (7) from the front trunnion bracket (6) first remove the winding handle (77) and knock the split pin (8) through the worm drive gear spindle, remove the spacer

(10), spring washer (11), steel washer (9), and nylon sleeve (12). The gear will now screw out and through the trunnion bracket (6) (take care not to lose the sleeve and spacer).

The bevel gear (28) is removed by taking out the two Torx 50 screws (5).

**Trunnion brackets**

If for any reason you need to remove the main cradle housing (15) you must only removeeither the front or rear trunnion brackets (6/4) in order to do this. The reason for this is that the positioning of these two brackets is set during assembly and the whole alignment/accuracy of the machine is dependant on these settings, if both are removed it is impossible for Service to re-create these settings without the special factory tooling, jigs, andguages.
To take off one of the brackets remove the two torx 50 screws (5), and lift out the bracket, easing the main cradle housing out of the slots in the other bracket.
Shims (132) are fitted during the factory assembly to the rear bracket (4), and these can be a different thickness depending on the setting required as the machine is assembled. The shims are used to help align the blade at 45º bevel cuts.

## *DW746 CONTRACTORS SAW - RE-ASSEMBLY*

Replace the shims and reartrunnion bracket if removed (132/4), and at the same time position the main cradle housing (15) in the rear bracket. The screws (5) should be tightened to 300 inch pounds.

Re-fit the rise and fall arbor housing (18) onto the pin of the main cradle housing (15) and through the riving knife bracket (140), having greased the pin first, and fix in position with the washer and circlips (16/17/141).

Re-fit the worm gear (7) (with one split pin, steel washer already fitted) through the main cradle housing (15) and sleeve(12), fit the steel washer (9), spring washer (11), and spacer (10), and fix to the worm drive with the split pin (8), fit the handle (77) and wind to check the rise and fall action.

Next fit the bevel gear (28) to the main cradle using the twoTorx 50 screws (5), but only finger tight at this stage.

Re-fit the worm gear (7) (with one split pin, steel washer already fitted) through the front trunnion bracket(6) and sleeve (12) and onto the bevel gear. You need to adjust the bevel angle to 45 degrees in order to align the worm gear and bevel gear.
Fit the steel washer (9), spring washer (11), and spacer (10), and fix to the worm drive with the split pin (8).

To set the worm gear and bevel gear correctly, fit the handle (77) and wind to set the bevel cut position to 0º tight against the stop/adjusting screw (3). This has the effect of meshing the two gears together, providing a good fit. Now unwind the handle 1 to 2 turns, and tighten the bevel gear fixing screws (5).

Put the blade arbor and flange assembly (19) through the arbor bracket (18), fit the spring washer (23), then put the pulley bearing (24) over the spring washer and press into the housing. (note that the bearing doesn't seat fully in the arbor housing) . If there is any bearing movement in the housing you will need to put a block behind the inner blade spindle flange to prevent movement, and then tap the bearing home.
In order to get the pulley flats aligned with the flat on the spindle it is necessary to ensure the bearing is correctly seated as described above. Now fix the pulleys (20) with the washer and locknut (21/22).

Fit the dust shroud assembly (30) back onto the main cradle before fitting the motor assembly, fixing it with the four Torx 30 screws (32).
Now thread the main spring onto the mounting point on the main cradle, ensuring the spring locates into the two slots of the mounting point. The spring only fits one way.

Before mounting the motor, (if removed) fit the spacer, two pulley's (correct way round), washer and nut onto the rotor spindle, aligning the flats on the rotor spindle and pulley's. Use the Service tooling spanner to hold the pulley's whilst tightening the locknut (22) (normal clockwise thread).
Locate the motor assembly over the pin hole on the main cradle, and fit the pin, washer and clip to secure the motor. Swing the motor up locating the hole on the bracket over the top of the main spring.

Replace the legs/side panels assembly and secure with the 4 fixing bolts (67).

Now fit the dust pipe (49) into the shroud assembly and fix in position by tightening the screws on the shroud (31).

Strap the cable to the side of the machine and re-fit the switch bracket (157) and switch.

Wind the depth of cut to it's minimum (with the arbor away from the table in this upside down mode) and fit the belt over the two sets of pulley's.

Refit the back panel (150), bottom panel (149), handles and securing knobs (77 & 78) and the 45º pointer (79).

Return the table to the up-right position, check that the care to be taken so not to dislodge the belt.

Fit blade and carry out alignment checks.

# TORQUE SETTINGS

| Item number | Description | Torque | |
|---|---|---|---|
| 5 | Trunnion & bevel gear screw | 24.8 to 31.6 Nm | |
| 22 | Arbor SA nut | 20.3 to 24.8 Nm | |
| 67 | Legs to Table | 24.8 to 31.6 Nm | |

**MAINTENANCE**

Clean all accumulated sawdust from the gears and worm drive area

Grease the gear and bracket items 18, 28

Grease the worm drives items 7

Grease the pin and washer on the worm drive items 8, 14

Lightly oil/wd40 area around the arbor pin andcirclip, washer items 16, 17 - Housing item 18 (where r/knife brkt fits)

Grease rear and front trunnion items 4, 6

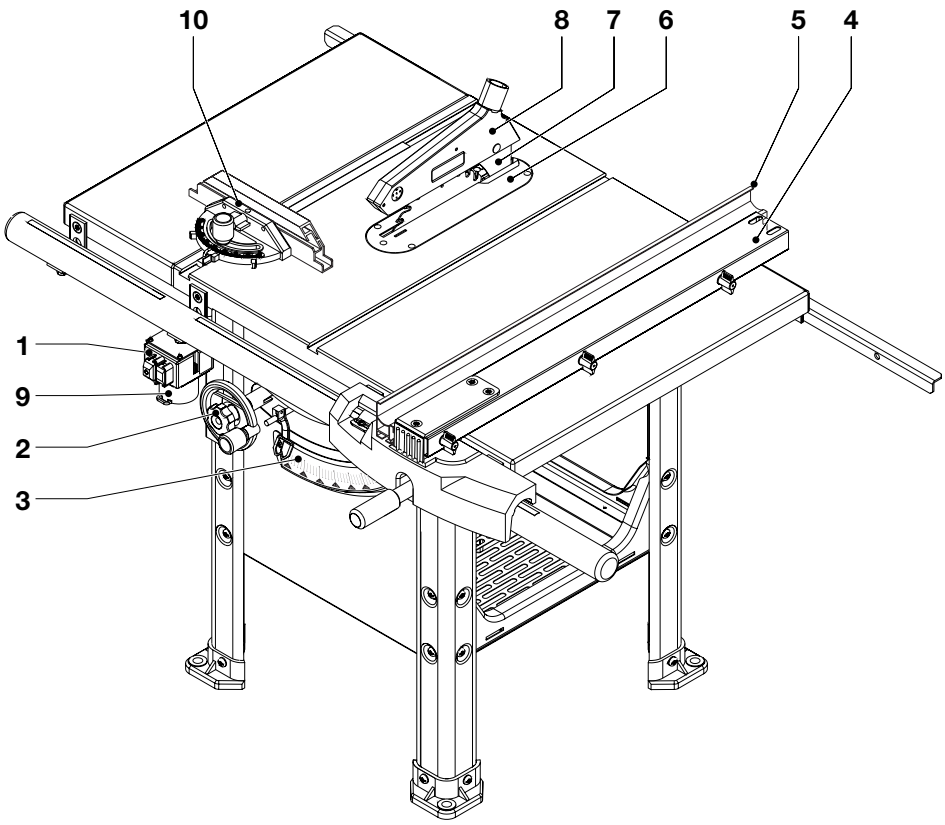
Front rail should be waxed periodically

Table top should be waxed periodically (can clean up using steel wool and wd40 then wax)

Grease cams on fence head assy

TOOLING

Special spanner to hold the pulley when removing the lock-nut from the rotor.
Special pin spanner to remove the lock-nut from the blade arbor.

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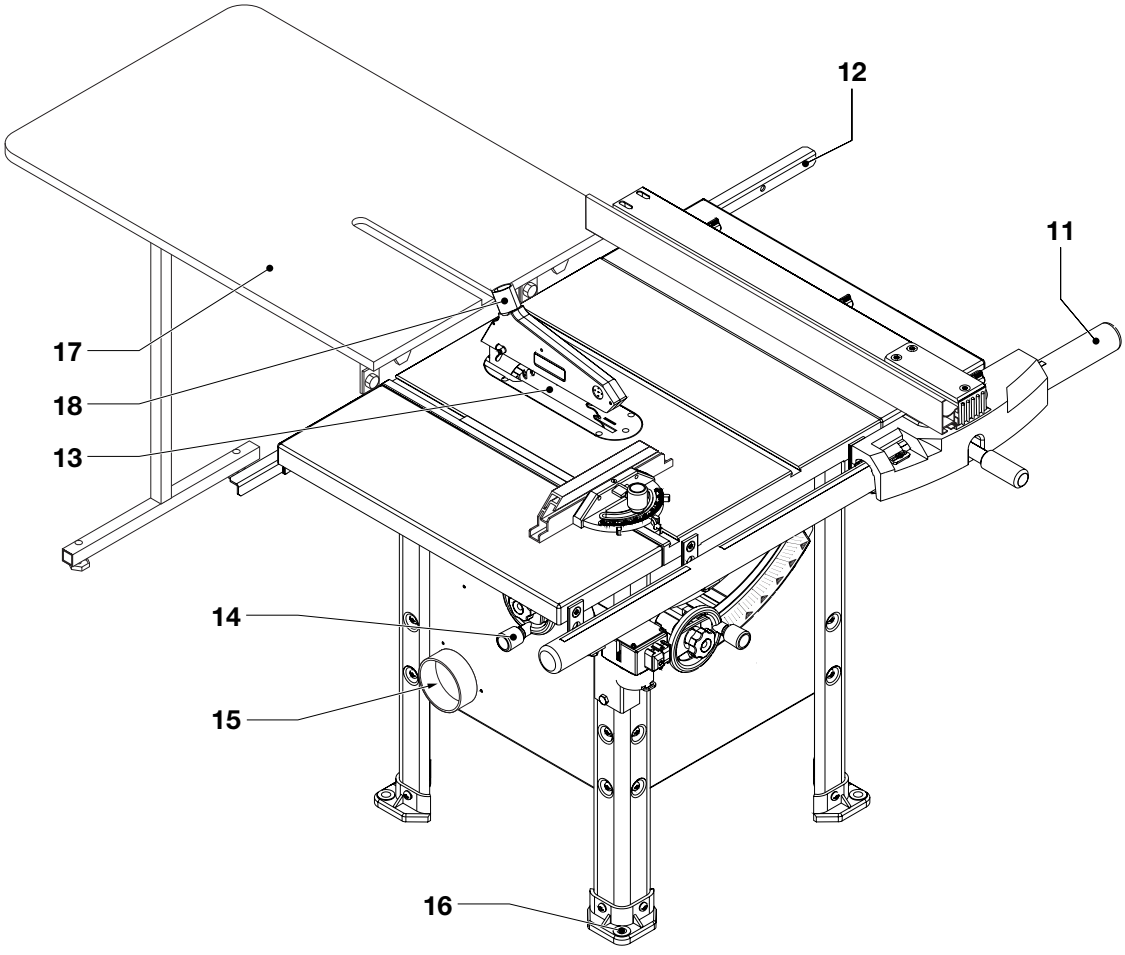


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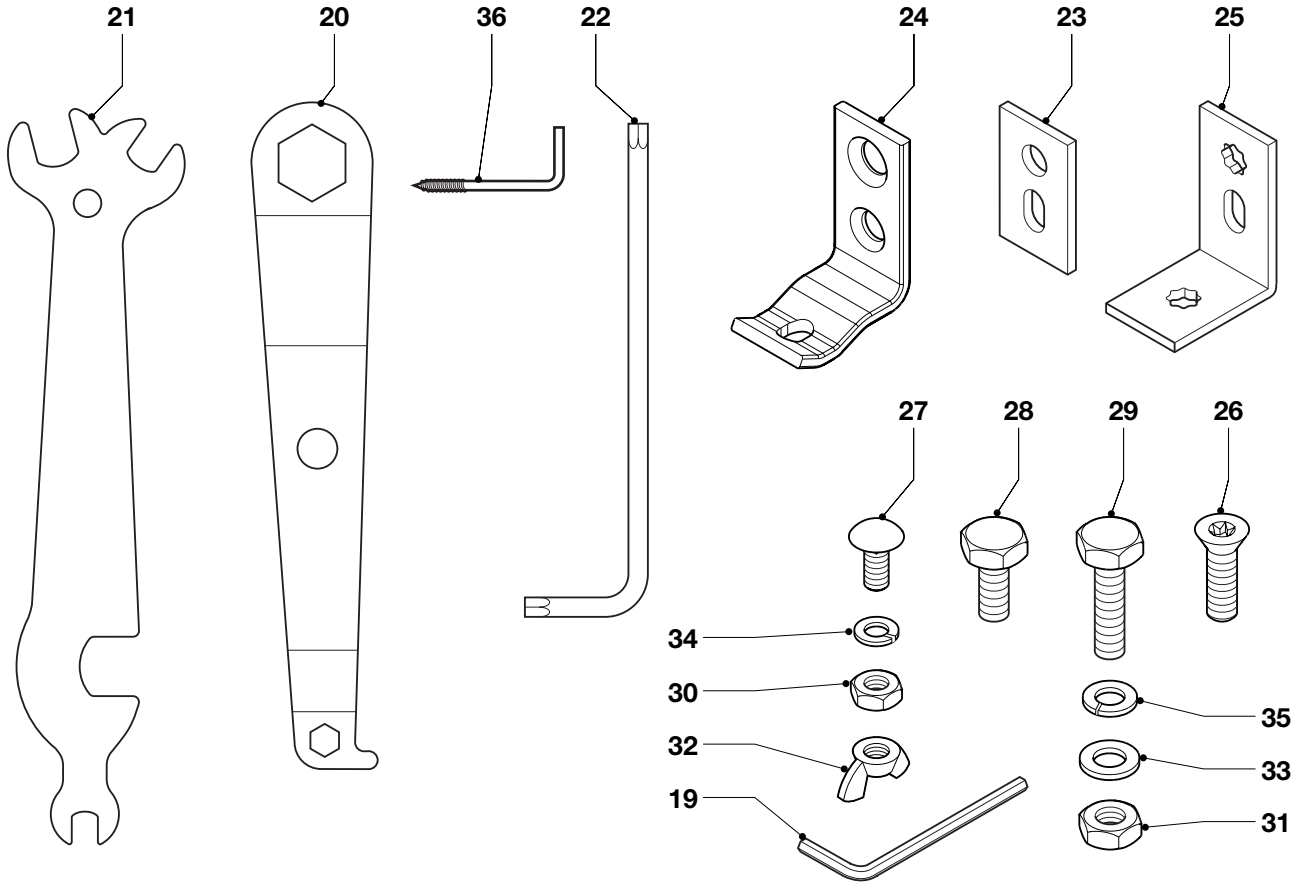
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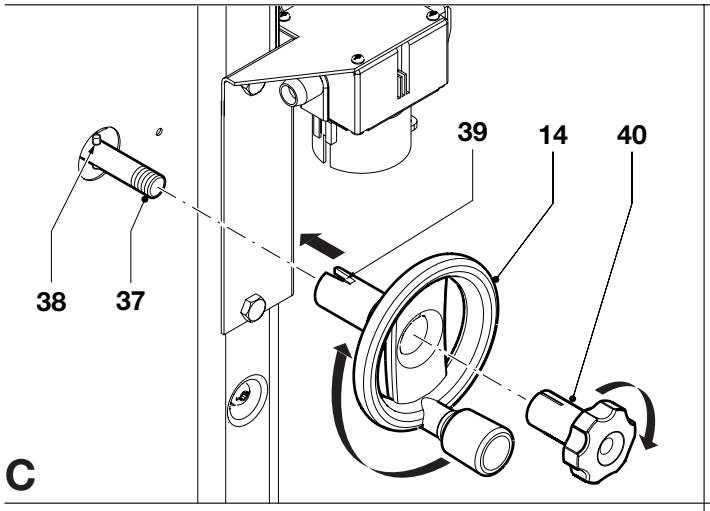
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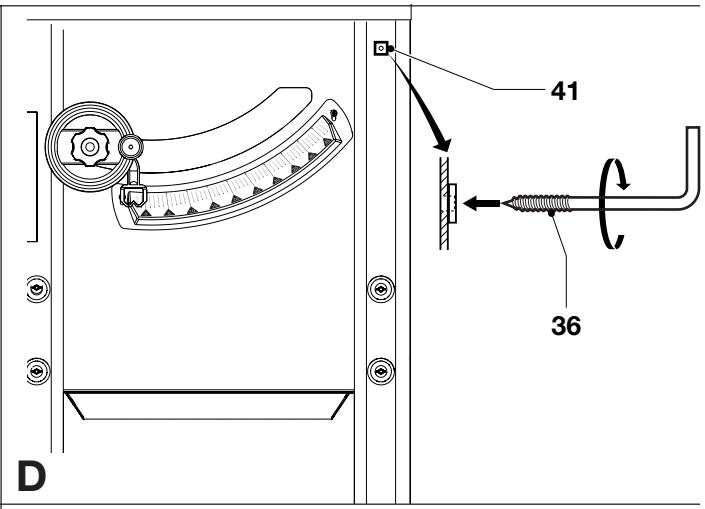
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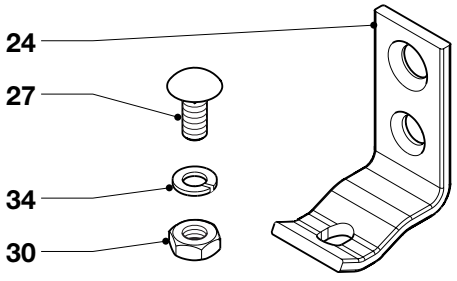
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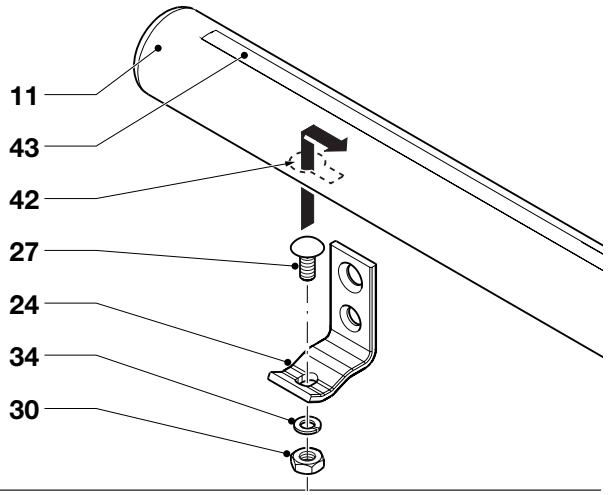
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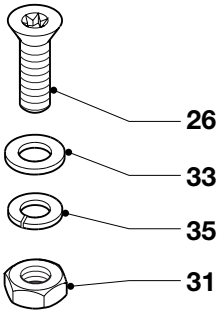


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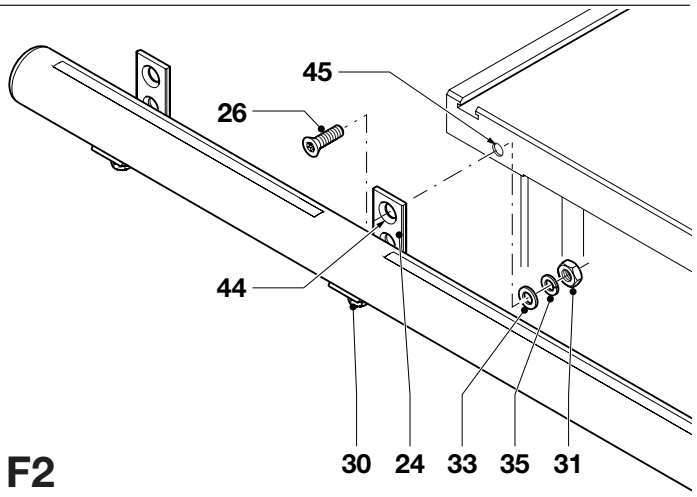


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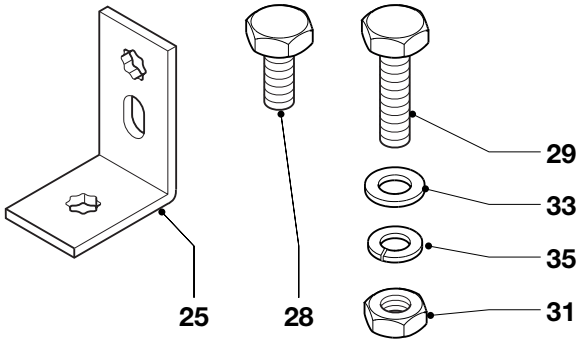


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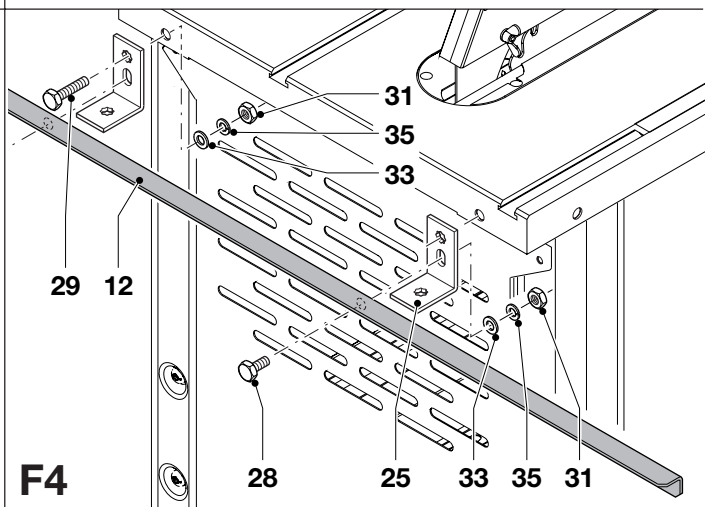


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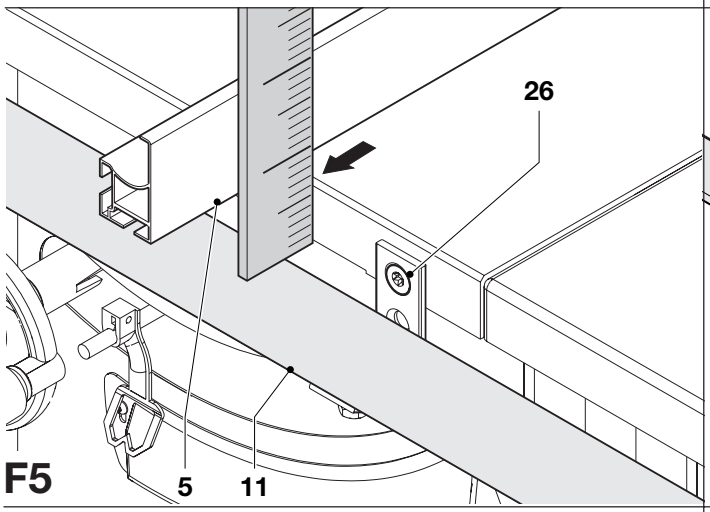


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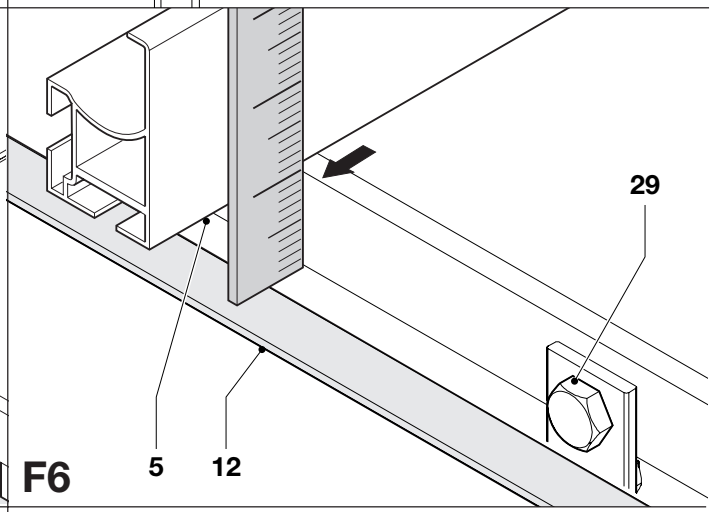


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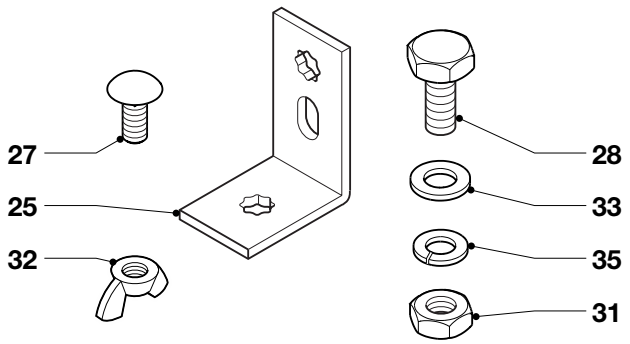


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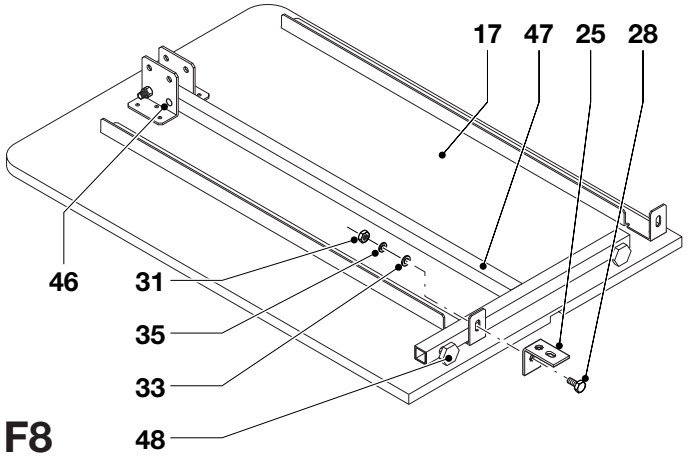


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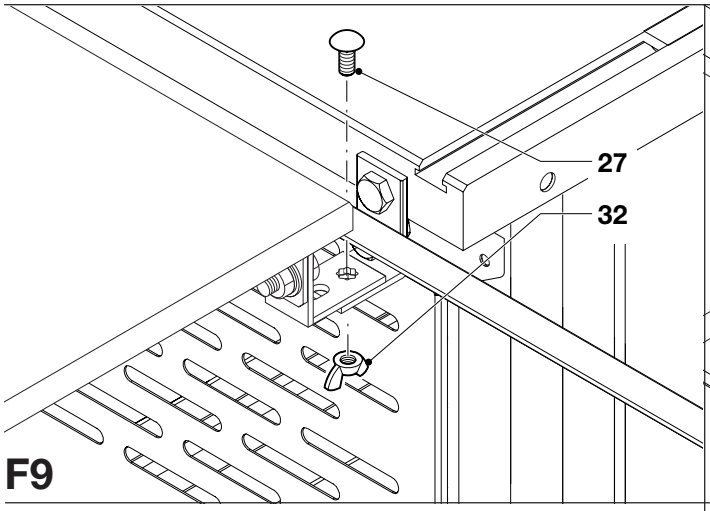


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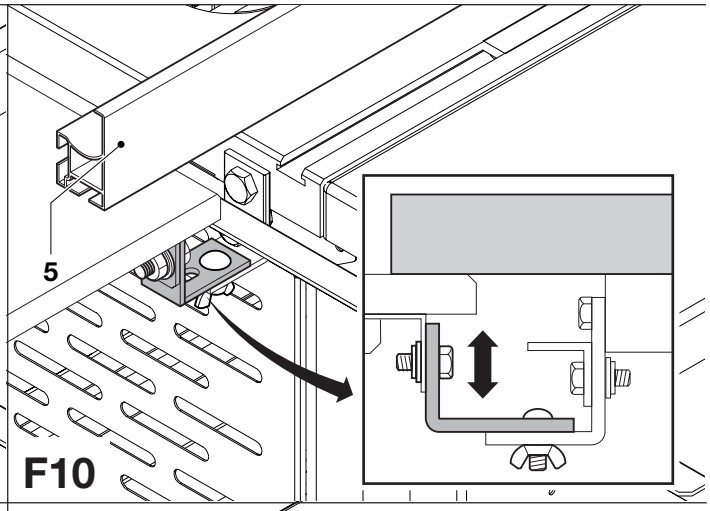


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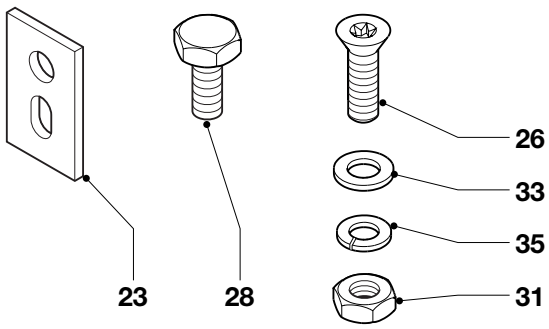


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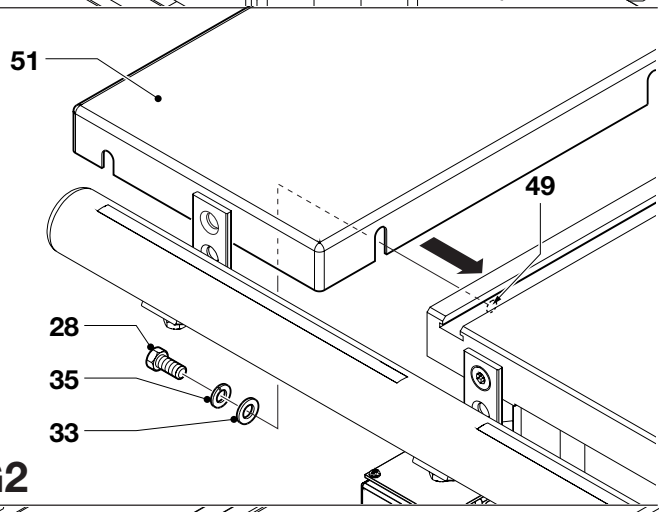


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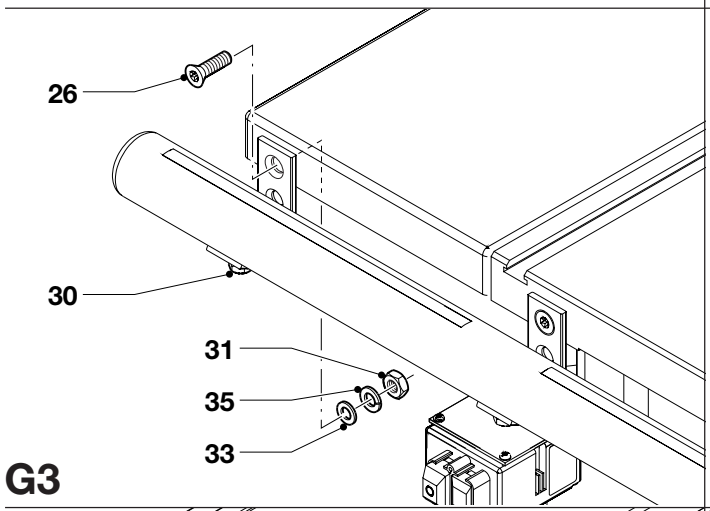


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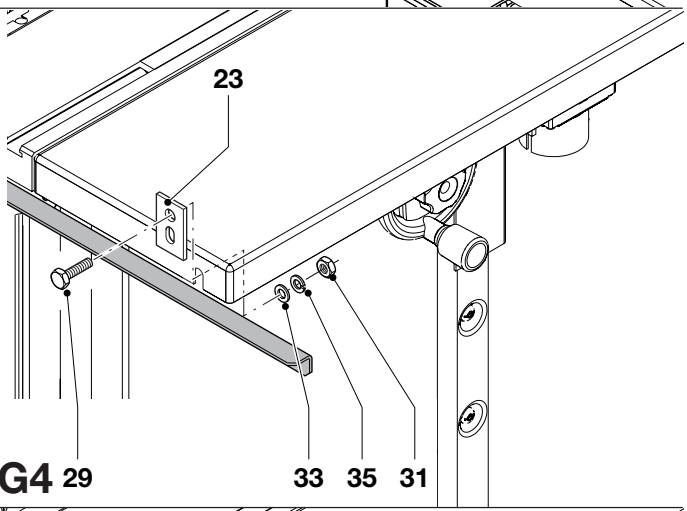


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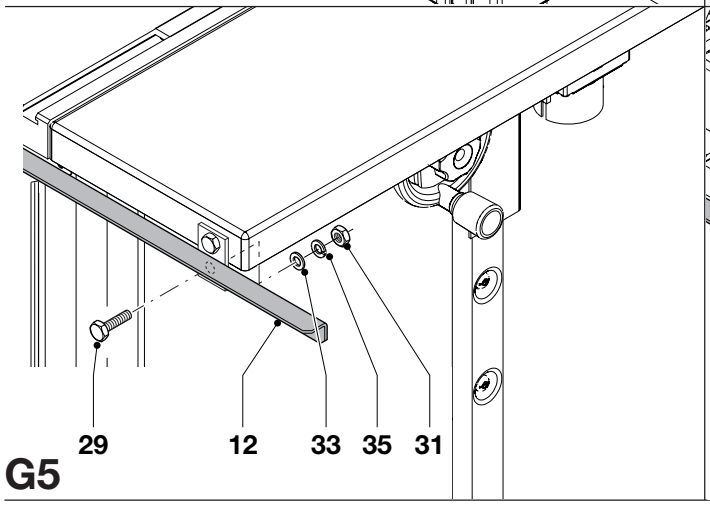


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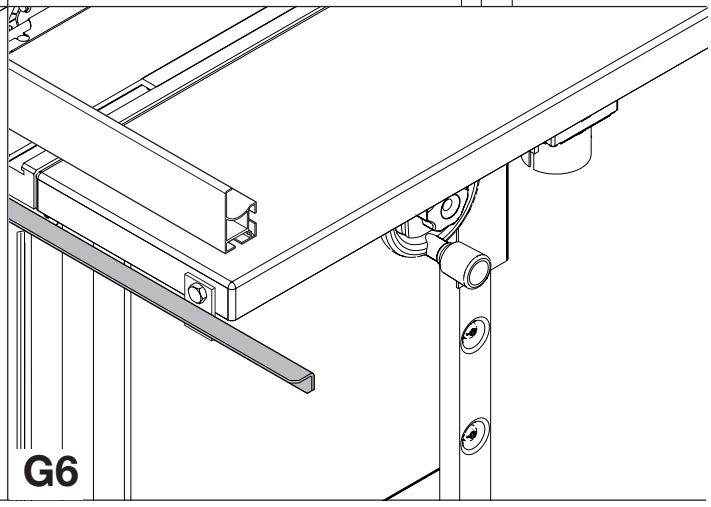

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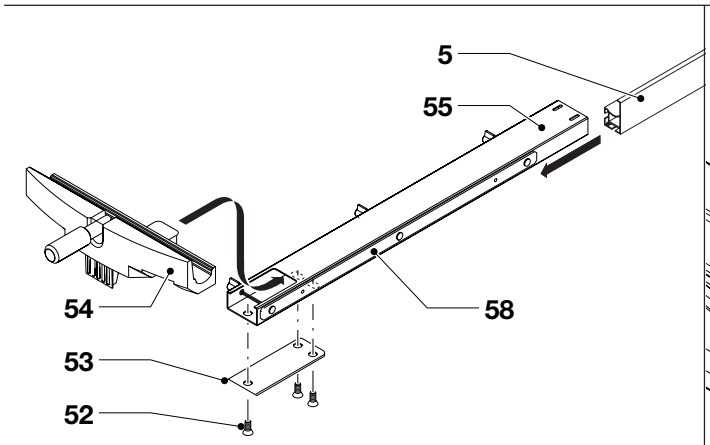


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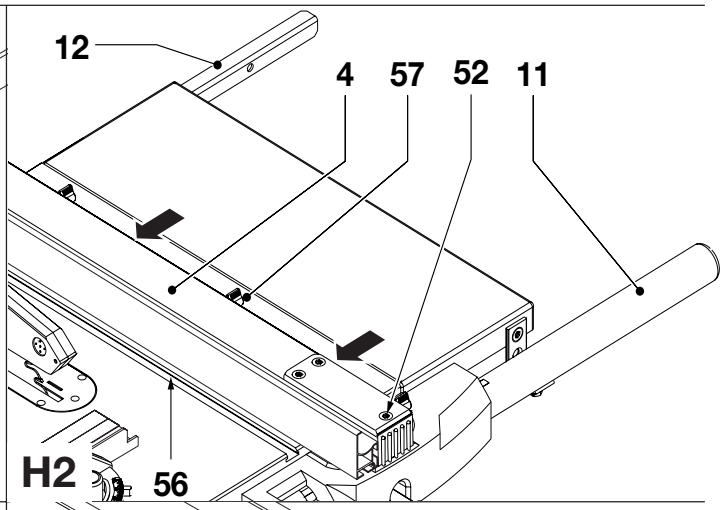


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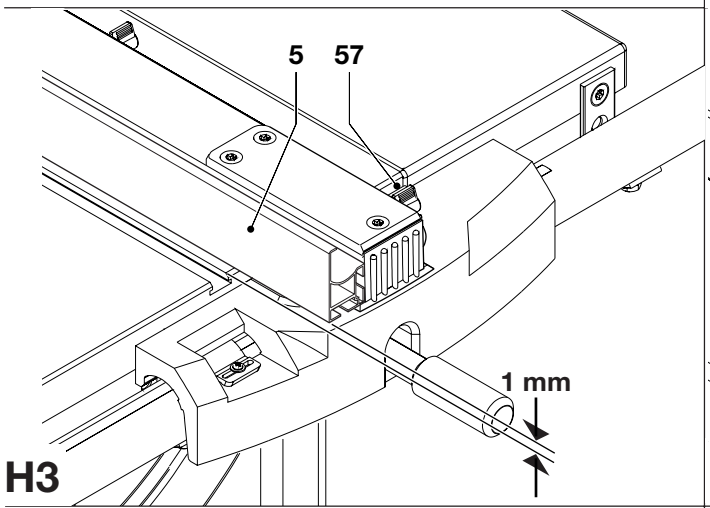


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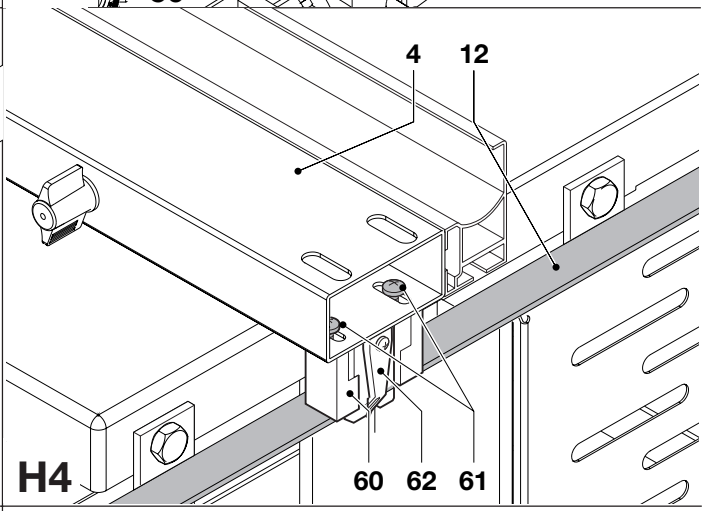


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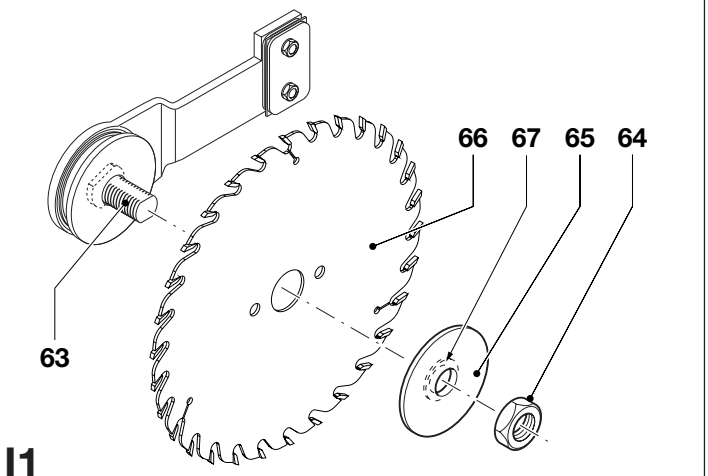


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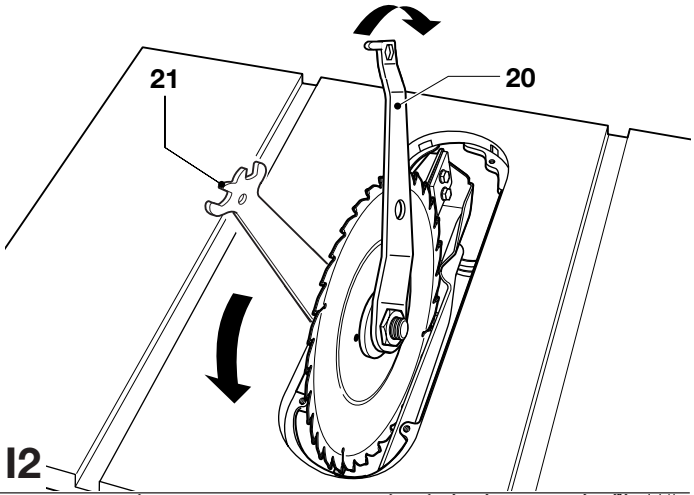


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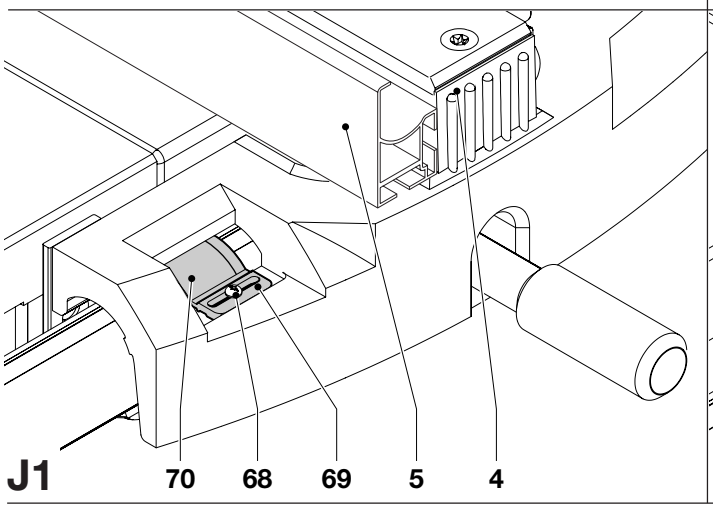


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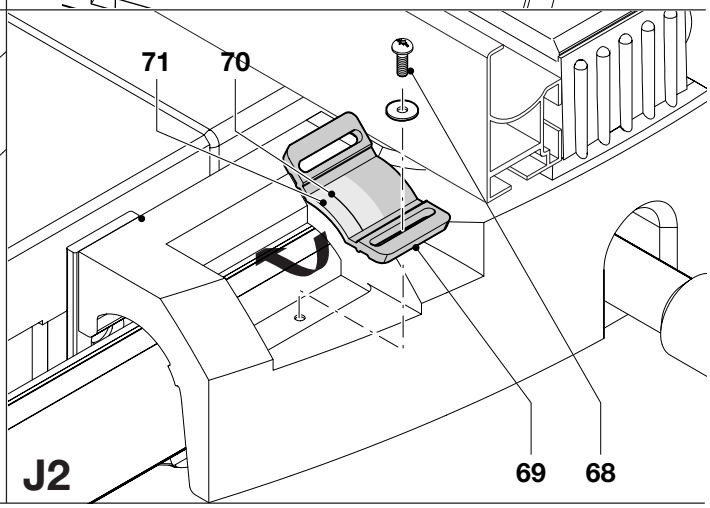


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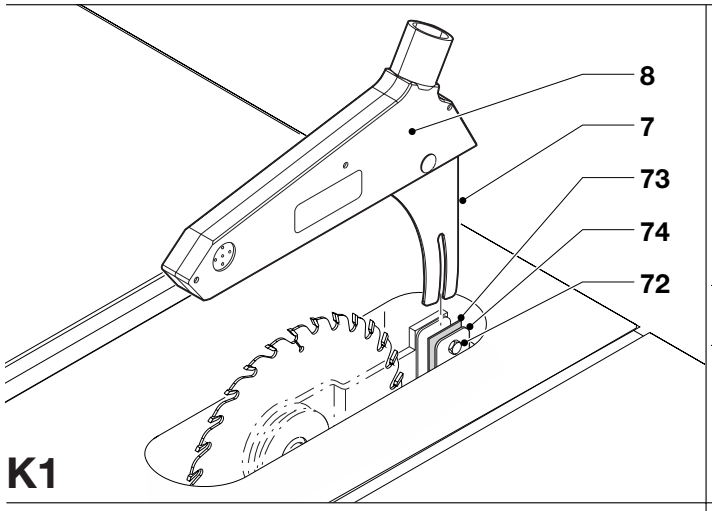


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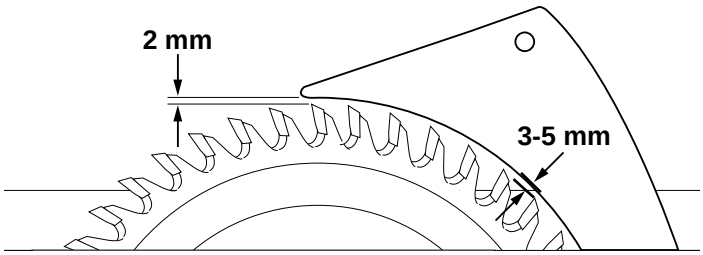


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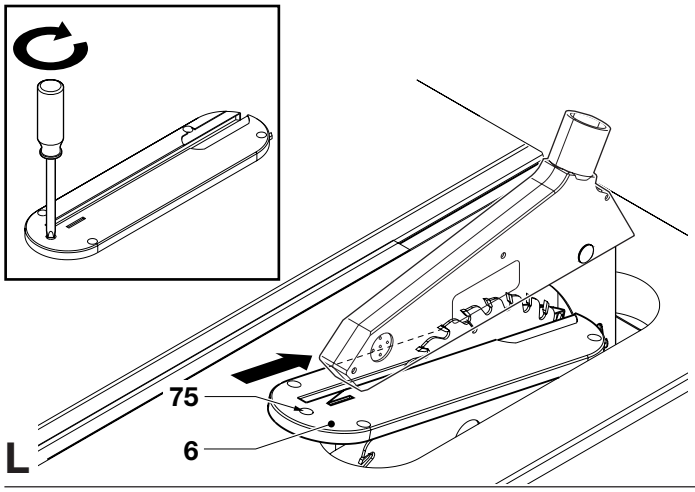


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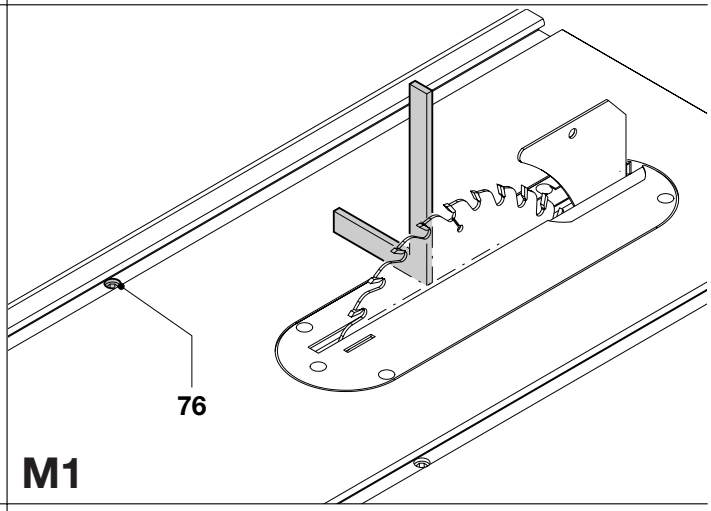


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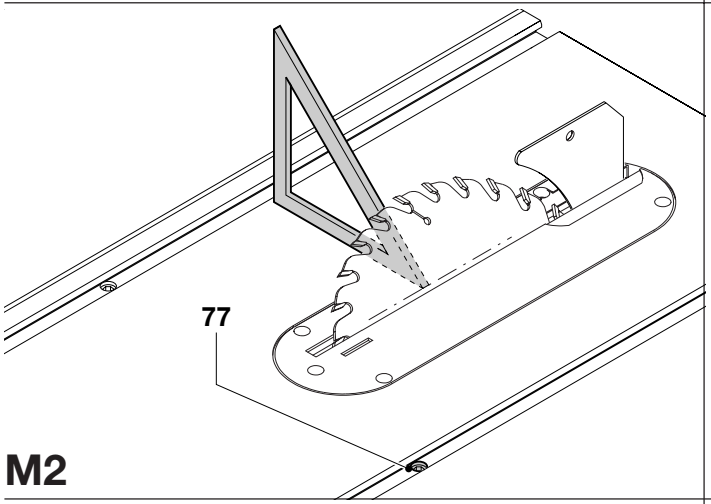


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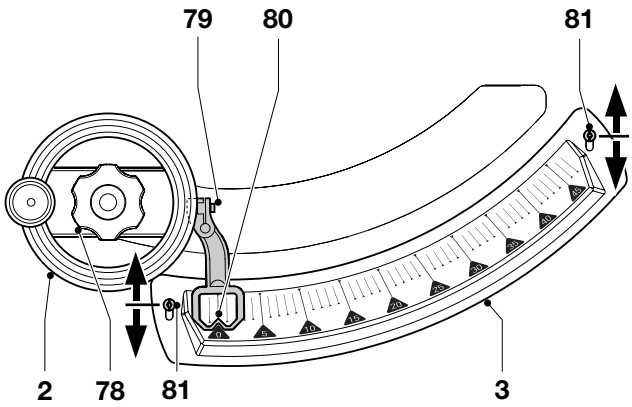


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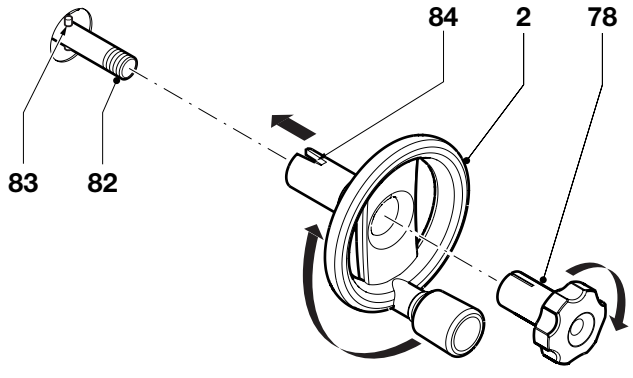


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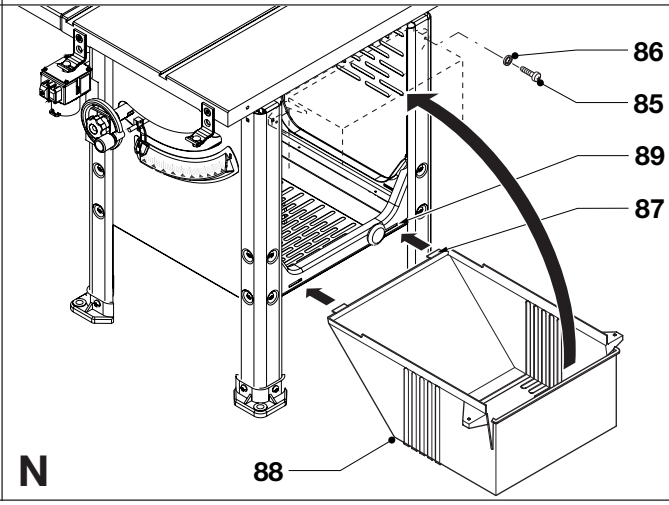


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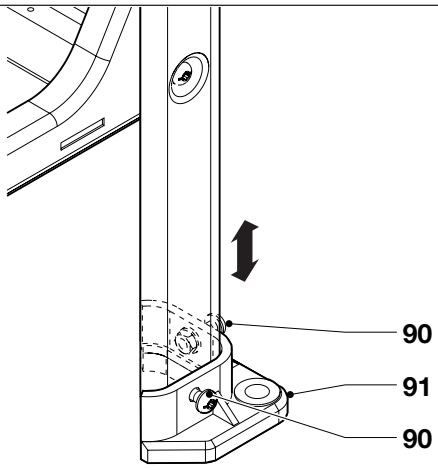


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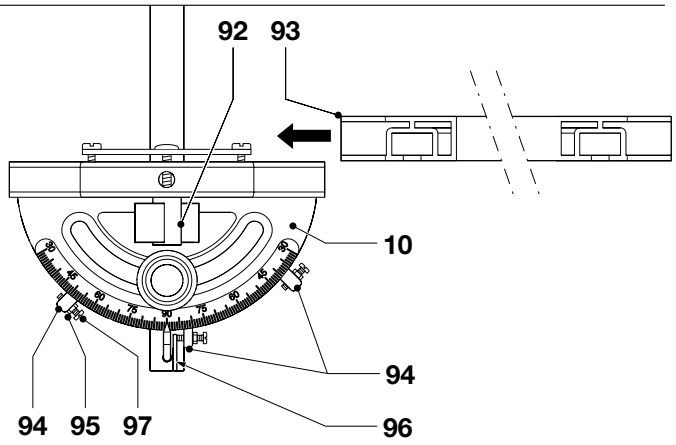


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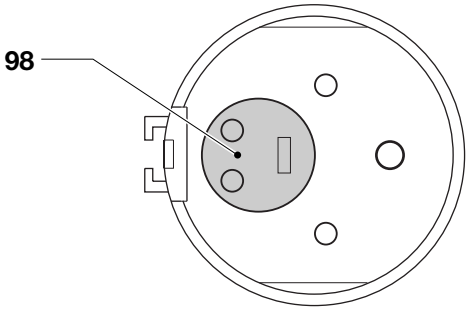


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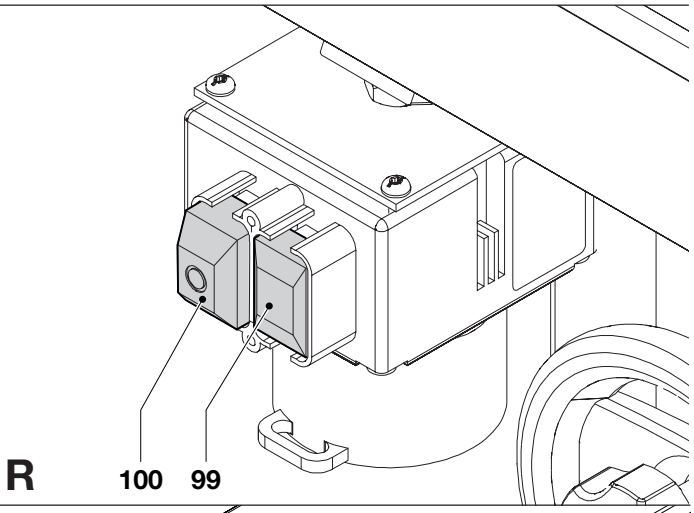


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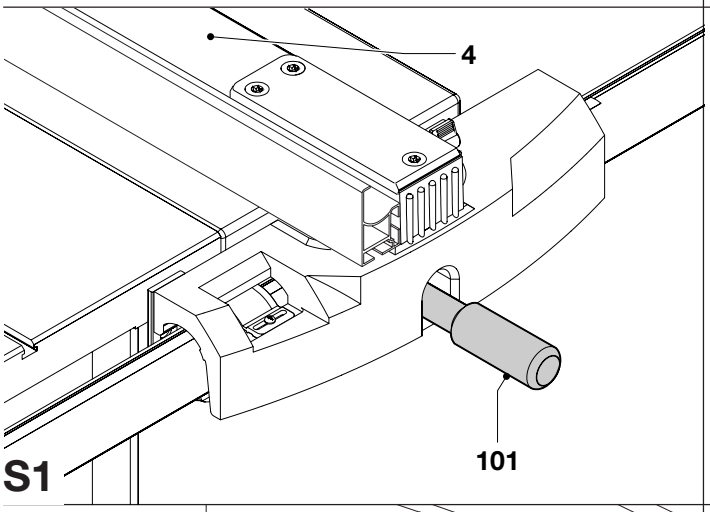


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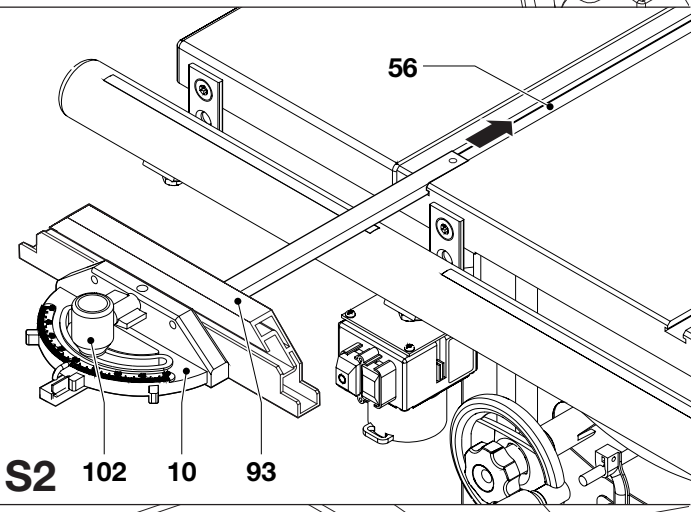


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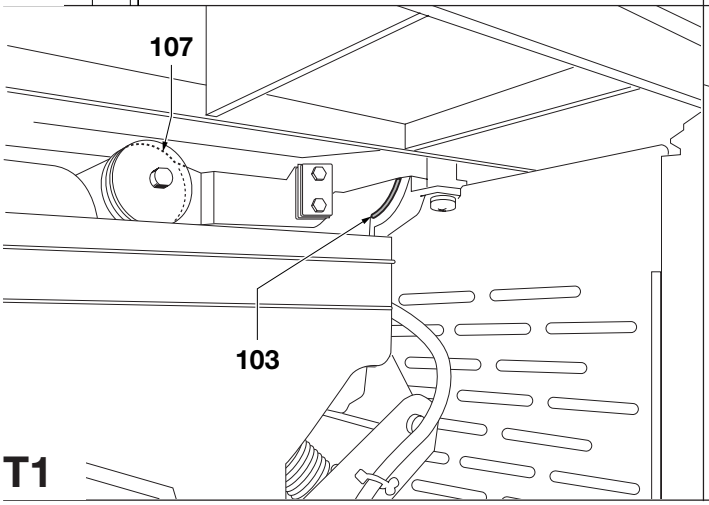


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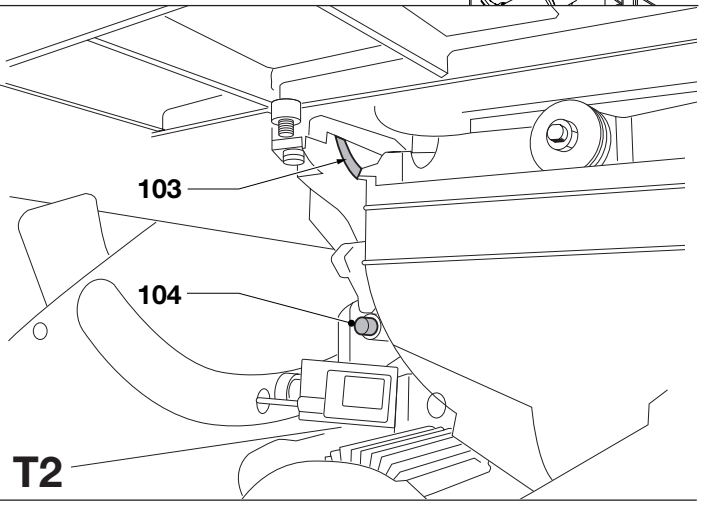


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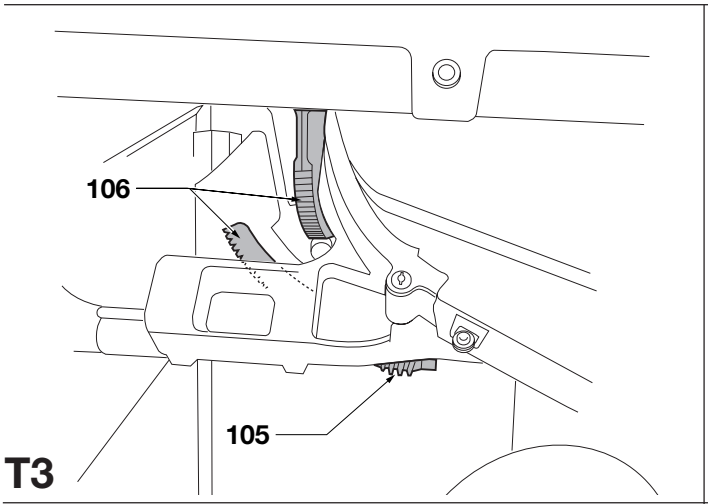


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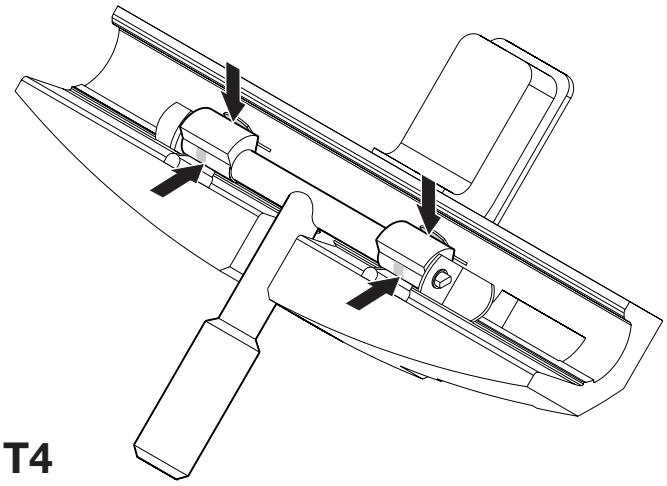

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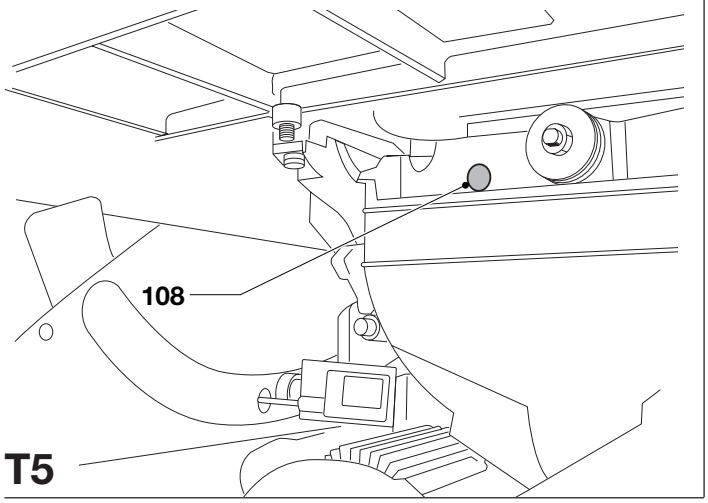


T5

# WOODWORKER'S TABLE SAW DW746/DW746T

**Congratulations!**
You have chosen a DEWALT product. Years of experience, thorough product development and innovation make DEWALT one of the most reliable partners for professional users.

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**Technical data**

| | | DW746 | DW746T |
|---|---|---|---|
| Voltage | V | 230 | 400 |
| Power input | W | 2,700 | 3,700 |
| Power output | W | 2,000 | 2,900 |
| Blade diameter | mm | 250 | 250 |
| Blade bore | mm | 30 | 30 |
| Max. blade thickness | mm | 3.2 | 3.2 |
| Max. blade speed | $min^{-1}$ | 3,300 | 3,300 |
| Ripping capacity at 90° (left/right) | mm | 370/730 | 370/730 |
| Max. mitre angle (left and right) | | 60° | 60° |
| Max. bevel angle (left/right) | | 47°/ 2° | 47°/2° |
| Max. depth of cut at 0° bevel | mm | 79 | 79 |
| Max. depth of cut at 45° bevel | mm | 54 | 54 |
| Automatic blade brake time | s | < 10.0 | < 10.0 |
| Environmental temperature | °C | 5 - 40 | 5 - 40 |
| Dust extraction: | | | |
| Required airflow | $m^3/h$ | 720 | 720 |
| Pressure drop at connection output | mbar | 24 | 24 |
| Recommended air velocity | | | |
| - dry wood | m/s | 20 | 20 |
| - wet wood | m/s | 28 | 28 |
| Cross section diameter at connection outlet | mm | 100 | 100 |
| Weight | kg | 124 | 126 |

| Fuses: | | |
|---|---|---|
| Europe | 230 V tools | 16 Amperes, mains |
| | 400 V tools | 16 Amperes, per phase |

The following symbols are used throughout this manual:

Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.

Denotes risk of electric shock.

Sharp edges.

**EC-Declaration of conformity**

CE

**DW746/DW746T**
DEWALT declares that these Power Tools have been designed in compliance with: 98/37/EEC, 89/336/EEC, EN 1870-1, EN 60204-1, EN 55014-2, EN 55014, EN 61000-3-2 & EN 61000-3-3.

For more information, please contact DEWALT at the address below or refer to the back of the manual.

Level of sound pressure according to 86/188/EEC & 98/37/EEC, measured according to EN ISO 3746:

| | | DW746 | DW746T |
|---|---|---|---|
| $L_{pA}$ (sound pressure) | dB(A)* | $1 | $4 |
| $L_{WA}$ (acoustic power) | dB(A) | $2 | $5 |

* at the operator's ear

Take appropriate measures for the protection of hearing if the sound pressure of 85 dB(A) is exceeded.

TÜV Rheinland
Product and Safety GmbH (TRPS)
Am Grauen Stein 1
D-51105 Köln
Germany

| | Cert. No. |
|---|---|
| | $ |

Director Engineering and Product Development
Horst Großmann

DEWALT, Richard-Klinger-Straße 40,
D-65510, Idstein, Germany

## Safety instructions

**When using Power Tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place!**

*General*

**1 Keep work area clean**
Cluttered areas and benches can cause accidents.

**2 Consider work area environment**
Do not expose Power Tools to humidity. Keep work area well lit. Do not use Power Tools in the presence of flammable liquids or gases.

**3 Guard against electric shock**
Prevent body contact with earthed surfaces (e.g. pipes, radiators, cookers and refrigerators). For use under extreme conditions (e.g. high humidity, when metal swarf is being produced, etc.) electric safety can be improved by inserting an isolating transformer or a (FI) earth-leakage circuit-breaker.

**4 Keep children away**
Do not let children come into contact with the tool or extension cord. Supervision is required for those under 16 years of age.

**5 Extension cords for outdoor use**
When the tool is used outdoors, always use extension cords intended for outdoor use and marked accordingly.

**6 Store idle tools**
When not in use, Power Tools must be stored in a dry place and locked up securely, out of reach of children.

**7 Dress properly**
Do not wear loose clothing or jewellery. They can be caught in moving parts. Preferably wear rubber gloves and non-slip footwear when working outdoors. Wear protective hair covering to keep long hair out of the way.

**8 Wear safety goggles**
Also use a face or dust mask in case the operations produce dust or flying particles.

**9 Beware of maximum sound pressure**
Take appropriate measures for the protection of hearing if the sound pressure of 85 dB(A) is exceeded.

**10 Secure workpiece**
Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.

**11 Do not overreach**
Keep proper footing and balance at all times.

**12 Avoid unintentional starting**
Do not carry the plugged-in tool with a finger on the switch. Be sure that the switch is released when plugging in.

**13 Stay alert**
Watch what you are doing. Use common sense. Do not operate the tool when you are tired.

**14 Disconnect tool**
Shut off power and wait for the tool to come to a complete standstill before leaving it unattended. Unplug the tool when not in use, before servicing or changing accessories.

**15 Remove adjusting keys and wrenches**
Always check that adjusting keys and wrenches are removed from the tool before operating the tool.

**16 Use appropriate tool**
The intended use is described in this instruction manual. Do not force small tools or attachments to do the job of a heavy-duty tool. The tool will do the job better and safer at the rate for which it was intended.
**Warning!** The use of any accessory or attachment or performance of any operation with this tool, other than those recommended in this instruction manual may present a risk of personal injury.

**17 Do not abuse cord**
Never carry the tool by its cord or pull it to disconnect from the socket. Keep the cord away from heat, oil and sharp edges.

**18 Maintain tools with care**
Keep the tools in good condition and clean for better and safer performance. Follow the instructions for maintenance and changing accessories. Inspect the tool cords at regular intervals and, if damaged, have them repaired by an authorized DEWALT repair agent. Inspect the extension cords periodically and replace them if damaged. Keep all controls dry, clean and free from oil and grease.

**19 Check for damaged parts**
Before using the tool, carefully check it for damage to ensure that it will operate properly and perform its intended function. Check for misalignment and seizure of moving parts, breakage of parts and any other conditions that may affect its operation. Have damaged guards or other defective parts repaired or replaced as instructed.
Do not use the tool if the switch is defective. Have the switch replaced by an authorized DEWALT repair agent.

**20 Have your tool repaired by an authorized DEWALT repair agent**
This Power Tool is in accordance with the relevant safety regulations. To avoid danger, electric appliances must only be repaired by qualified technicians.

*Additional safety rules for table saws*

**21 Saw blades**
Make sure that the blade rotates in the correct direction. Keep the blade sharp. Do not use blades of larger or smaller diameter than recommended. For proper blade rating refer to the technical data.
Use only the blades specified in this manual, complying with EN 847-1.
Do not use any adapters or arbor rings.

**22 Blade guards**
Never operate the saw without the guards in place.

**23 Maintenance of the blade and arbor collars**
Make sure that the blade is not damaged or cracked and that the arbor collars are clean on the surfaces of contact. Use both wrenches to tighten.

**24 Riving knife**
Make sure that the riving knife is adjusted to the correct distance from the blade - 3-5 mm. Use only the original riving knife.

**25 Push stick/push block**
Use a push stick or push block at all times, and ensure that you do not place hands closer than 150 mm from the saw blade while cutting.

**26 Material**
Do not use the saw for cutting any material other than solid wood, chipboard, fibreboard and plywood. These materials may be covered with a plastic edging or plastic/light alloy laminates.

**27 Lasers**
If you use a laser to indicate the cutting line, make sure that the laser is of category IIIA or lower according to EN 60825-1: 1994.

*Residual risks*

The following risks are inherent to the use of saws:
- injuries caused by touching the rotating parts

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:
- Impairment of hearing.
- Risk of accidents caused by the uncovered parts of the rotating saw blade.
- Risk of injury when changing the blade.
- Risk of squeezing fingers when opening the guards.
- Health hazards caused by breathing dust developed when sawing wood, especially oak, beech and MDF.

## Package contents

The package contains:

1 Partly assembled table saw
1 Front support rail
1 Rear support rail
1 Box containing:
- 1 Bevel crank
- 1 Push block
- 1 Push stick
- 1 Saw blade
- 1 Mitre fence assembly
- 1 Mitre fence face
- 1 Throat plate insert
- 1 Riving knife and guard assembly
- 1 Fence head assembly
- 1 Combination wrench
- 1 Blade wrench
- 1 Torx wrench T50
- 1 Allen key 5 mm
- 4 Front rail brackets
- 1 Wrench hook
- 2 Hex head bolts M10 x 35
- 8 Hex head bolts M10 x 25
- 4 Coach bolts M8 x 20
- 4 Torx bolts T50, M10 x 30
- 8 Hex nuts M10
- 4 Hex nuts M8
- 4 Lock washers 8 mm
- 14 Lock washers 10 mm
- 14 Flat washers 10 mm

1 Box containing:
- 2 Support tables

1 Box containing:
- 1 Fence beam
- 1 Reversible fence face

1 Box containing:
- 1 Outfeed table
- 4 L-shaped brackets
- 2 Flat brackets
- 2 Coach bolts
- 2 Wing nuts
- 6 Hex head bolts M10 x 25
- 4 Hex head bolts M10 x 35
- 10 Hex nuts M10
- 10 Lock washers 10 mm
- 10 Flat washers 10 mm

1 Wiring diagram
1 Instruction manual
1 Exploded drawing

- Check for damage to the tool, parts or accessories which may have occurred during transport.
- Take the time to thoroughly read and understand this manual prior to operation.

## Description (fig. A1 & A2)

Your DEWALT woodworker's table saw DW746/DW746T is a professional machine designed for sawing wood, wood products and plastics.

*Fig. A1*

1 On/off-switch
2 Height adjuster
3 Bevel scale
4 Rip fence
5 Fence face
6 Throat plate insert
7 Riving knife
8 Blade guard
9 Power connector
10 Mitre fence

*Fig. A2*

11 Front rail
12 Rear rail
13 Saw blade
14 Bevel adjuster
15 Dust port 100 mm
16 Floor anchor hole
17 Outfeed table
18 Dust port 38 mm

## Electrical safety

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate.

## Using an extension cable

If an extension cable is required, use an approved extension cable suitable for the power input of this machine (see technical data). The minimum conductor size is 1.5 $mm^2$.
When using a cable reel, always unwind the cable completely. Also refer to the table below.

| Conductor size ($mm^2$) | | Cable rating (Amperes) | | | | | |
|---|---|---|---|---|---|---|---|
| 1.50 | | 15 | | | | | |
| 2.50 | | 20 | | | | | |
| 4.00 | | 25 | | | | | |
| | | Cable length (m) | | | | | |
| | | 7.5 | 15 | 25 | 30 | 45 | 60 |
| Voltage | Amperes | Cable rating (Amperes) | | | | | |
| 230 | 0 - 2.0 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 2.1 - 3.4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 3.5 - 5.0 | 6 | 6 | 6 | 6 | 10 | 15 |
| | 5.1 - 7.0 | 10 | 10 | 10 | 10 | 15 | 15 |
| | 7.1 - 12.0 | 15 | 15 | 15 | 15 | 20 | 20 |
| | 12.1 - 20.0 | 20 | 20 | 20 | 20 | 25 | - |

Three-phase machines should be wired directly into the mains by a suitably qualified electrician.

## Assembly and adjustment

Prior to assembly and adjustment always unplug the tool.

*Unpacking the saw and its parts*

When moving the machine, always seek assistance.
The machine is too heavy for one person to handle.

- Remove the boxes attached to the main box.
- Cut the staples at the bottom of the main box and remove the carton from the saw by pulling it up.
- Remove the motor cover and parts box from the interior of the saw. You will need to deflect the mounting tabs on the motor cover in order to remove it.
- Cut the strap holding the motor.
- Put the saw into the upright position.
- Lower the motor using the height adjuster and remove the foam material from the interior of the saw. Now turn the adjuster clockwise as far as it will go to raise the motor.

- Remove any remaining packing material from the saw.

Your saw was shipped with an anti-corrosion coating on the table top.

- Carefully clean the table top using a mild solvent cleaner.

***Identifying the hardware parts (fig. B)***

We recommend that you unpack and sort all hardware parts.

19 Allen key 5 mm
20 Blade wrench
21 Combination wrench
22 Torx wrench T50
23 Flat bracket
24 Front rail bracket
25 L-shaped bracket
26 Torx bolt T50, M10 x 30
27 Coach bolt M8 x 20
28 Hex head bolt M10 x 25
29 Hex head bolt M10 x 35
30 Hex nut M8
31 Hex nut M10
32 Wing nut
33 Flat washer M10
34 Lock washer M8
35 Lock washer M10
36 Wrench hook

***Required and recommended tools***

Apart from the tools included with the machine, the following tools are required:

- Flat blade screwdriver
- Open end wrench 16 mm
- Ruler
- Set square
- Soft hammer (or regular hammer and block of wood)

You will also need:

- Mild solvent cleaner, eg. mineral spirits, paint thinner or denatured alcohol
- High-quality paste wax

The following tools would be helpful:

- Socket wrench 16 mm
- Socket wrench 13 mm
- Open end wrench 10 mm
- Torx screwdrivers T20 and T25
- Torx wrench T40

Always use the correct type and size of tool.

***Mounting the bevel adjuster (fig. C)***

- Take the bevel adjuster (14) from the parts box.
- Place the adjuster onto the shaft (37). Slightly rotate the adjuster until the shaft pin (38) engages in the slot (39).
- Screw the lock knob (40) onto the adjuster.
- Tighten the lock knob, then slacken it by half a turn.

***Mounting the wrench hook (fig. D)***

- Insert the wrench hook (36) into the hole (41).
- Thread the wrench hook in until only a few threads are still visible.

Always hang the combination wrench, blade wrench, push stick and push block on the hook when not in use.

***Assembling the front rail (fig. E1 & E2)***

Required hardware parts: 4 coach bolts (27), 4 front rail brackets (24), 4 lock washers (34), 4 nuts (30) (fig. E1).

- Insert a coach bolt (27) into each of the front rail brackets (24) as shown (fig. E2).
- Place a lock washer (34) and nut (30) onto the coach bolts and tighten the nuts a few threads.
- Insert the head of the coach bolts into the keyhole slots (42) in the front rail (11). Make sure that the brackets are pointing up (with the scale (43) on the front rail facing up).
- Engage the square part of the bolts.
- Tighten the nuts finger tight.

***Mounting the front rail to the saw (fig. F1 & F2)***

Required hardware parts: 2 Torx bolts (26), 2 flat washers (33), 2 lock washers (35), 2 nuts (31) (fig. F1).

- Hold the front rail against the front side of table top with the brackets (24) pointing up (fig. F2).
- Align the upper holes (44) in the brackets with the corresponding holes (45) in the table top.
- Insert a Torx bolt (26) into each of the holes in the brackets and the table top.
- Place a flat washer (33), a lock washer (35) and a nut (31) onto the end of each of the bolts.
- Tighten the nuts finger tight.
- Tighten the middle two rail bracket nuts (30).

***Mounting the rear rail to the saw (fig. F3 & F4)***

Required hardware parts: 2 L-shaped brackets (25), 2 short hex head bolts (28), 2 long hex head bolts (29), 4 flat washers (33), 4 lock washers (35), 4 nuts (31) (fig. F3).

- Mount 2 L-shaped brackets (25) for the outfeed table to the rear of the table top using long hex head bolts (29), flat washers (33), lock washers (35) and nuts (31) as shown (fig. F4). Make sure that the brackets are at a right angle to the saw table.
- Align 2 holes in the rear rail with the lower holes in the brackets. The flat side of the rail should be facing up.
- Mount the rail to the brackets using short hex head bolts (28), flat washers (33), lock washers (35) and nuts (31) as shown. Do not fully tighten.

***Parallel the rails to the table top***

Front rail (fig. F5)

- Use the fence face (5) to extend the table surface over the front rail (11).
- Using a ruler, measure the distance between the table top and the rail at both ends of the table top. The distance should be equal at both ends.
- If adjustment is required, slacken the bolts (26) holding the brackets to the saw. Tap the brackets using a soft hammer until the distances are equal at both ends of the table top.
- Securely tighten the bolts.

Rear rail (fig. F6)

- Use the fence face (5) to extend the table surface over the rear rail (12).
- Measure the distance between the table top and the rail at both ends of the table top. The distance should be equal at both ends.
- If adjustment is required, slacken the bolts (29) holding the brackets to the saw. Tap the brackets using a soft hammer until the distances are equal at both ends of the table top.
- Securely tighten the bolts.

***Mounting the outfeed table (fig. F7 - F9)***

Required hardware parts: 2 L-shaped brackets (25), 2 hex head bolts (28), 2 flat washers (33), 2 lock washers (35), 2 nuts (31), 2 coach bolts (27), 2 wing nuts (32) (fig. F7).

- Place the outfeed table (17) on the floor with the flat side down (fig. F8). Use a piece of cardboard to avoid damaging the table surface.
- Mount the L-shaped brackets (25) as shown, using 2 hex head bolts (28), lock washers (35), flat washers (33) and nuts (31). Do not fully tighten.
- Depress the locking pins (46) and unfold the leg (47).
- Place the table on the back of the saw so that the brackets mounted to the table rest on the brackets mounted to the saw (fig. F9).
- Use 2 coach bolts (27) and wing nuts (32) as shown to connect the brackets. Securely tighten the wing nuts.

***Adjusting the outfeed table (fig. F8 & F10)***

The outfeed table should be level with (or slightly below) the table top.

- To check, place the fence face (5) over the table top and outfeed table (fig. F10).
- If necessary, raise or lower the outfeed table until the connecting end is level with the table top.
- If the other end of the outfeed table is not level, adjust by turning the feet (48) (fig. F8).
- Securely tighten the bolts and nuts.

***Mounting the support tables (fig. G1 - G6)***

Required hardware parts: 2 Torx bolts (26), 10 hex head bolts (28), 10 flat washers (33), 10 lock washers (35), 4 nuts (31), 2 flat brackets (23) (fig. G1).

- Install 3 hex head bolts (28), lock washers (35) and flat washers (33) in the holes (49) in the side of the saw as shown (fig. G2).
- Leave a 5 mm gap between the table top and the bolt heads.
- Place the support table (51) on the bolts as shown. Do not fully tighten the bolts.
- Tighten the nut (30) holding the bracket to the rail (fig. G3).
- Align the hole in the outer front rail bracket (24) with the slot in the support table.
- Mount the front rail bracket to the support table using a Torx bolt (26), lock washer (35), flat washer (33) and nut (31).
- Connect the support table to the rear rail using a flat bracket (23), 2 hex head bolts (29), 2 flat washers (33), 2 lock washers (35) and 2 nuts (31) (fig. G4 & G5).
- Use the fence face to check if the edge of the support table is level with or slightly below the table top (fig. G6). Adjust as necessary and tighten the bolts (28) (fig. G2).
- Use the fence face or a spirit level to check if the support table is level. Adjust as necessary and securely tighten all bolts and nuts.
- Repeat the procedure for the other support table.

***Assembling the rip fence (fig. H1)***

- Remove the 3 screws (52) and take the cover plate (53) from the fence head (54).
- Mount the fence beam (55) to the fence head (54) as shown.
- Remount the cover plate (53) and the screws (52). Do not tighten.
- Slide the fence face (5) onto the fence rail (58) as shown.

***Aligning the rip fence (fig. H2)***

- Place the rip fence (4) on the front rail (11) and rear rail (12) close to the mitre slot (56) at the right-hand side of the table.
- Slacken the 3 wing nuts (57).
- Slightly loosen the 3 screws (52).
- Let the fence face drop into the mitre slot and press the rip fence to the left.
- Lock the fence head in place by pushing the lever (59) down.
- Tighten the screws (52), starting with the rearmost two.

***Adjusting the fence face (fig. H3)***

- Slacken the wing nuts (57).
- Set the fence face (5) so it clears the table top by approx. 1 mm.
- If desired, adjust the fence face forward or backward.
- Tighten the wing nuts (57).

For very thin workpieces, the fence face can be set so it rests on the table top. Make sure to set the fence face so it clears the table top by approx. 1 mm before moving the fence.

***Adjusting the rear fence glide (fig. H2 & H4)***

- Slide the rip fence (4) back and forth to check if it slides freely over the rails (fig. H2).
- Lock the rip fence in place using the lever (59).

If there is excessive up/down movement in the rear of the fence when locking, the rear fence bracket (60) needs adjustment (fig. H4).
To adjust:

- Slacken the screws (61).
- Set the retaining clip (62) so that it slightly pushes on the rear rail (12).
- Tighten the screws.
- Check that the fence still slides smoothly. If it does not, the clip is pushing on the rail too strongly.

***Mounting the saw blade (fig. A1, A2 & I1 - I2)***

The teeth of a new blade are very sharp and can be dangerous.

Use a holder or wear gloves when handling saw blades.

- Set the blade arbor (63) (fig. I1) to its highest position using the adjuster (2) (fig. A1).
- Remove the nut (64) and outer clamp washer (65) (fig. I1).
- Place the blade (66) onto the arbor with the teeth pointing towards the front of the saw.
- Remount the outer clamp washer (65) and nut (64) as shown. Make sure that the saw blade is piloted on the outer clamp washer hub (67).
- Use the combination wrench (21) and blade wrench (20) as shown to tighten the nut (fig. I2).

Should the nut fall into the interior of the saw, carefully remove it via the 100 mm dust port (18) (fig. A2).

***Adjusting the fence scale indicator (fig. J1 & J2)***

- Slide the rip fence (4) with its face (5) against the saw blade.

When using the high fence face

- Loosen the screw (68).
- Slide the indicator (69) until the hairline (70) aligns with the 0 line on the scale.
- Tighten the screw.

When using the low fence face

The indicator has been factory-set for the high fence face. When using the low fence face, proceed as follows (fig. J2):

- Remove the screw (68).
- Flip the indicator (69) out.
- Reverse the indicator (so the window (71) is on the left side).
- Remount the indicator, aligning the hairline (70) with the 0 line on the scale.
- Tighten the screw.

***Mounting the riving knife and guard assembly (fig. K1 & K2)***

- Loosen the bolts (72) enough to allow the riving knife (7) to fit into the shims (73) between the retaining plates (74) (fig. K1).
- Mount the riving knife between a pair of shims.
- Using a straight edge, check if the riving knife is properly aligned with the saw blade.
- If adjustment is needed, mount the riving knife between a different pair of shims. Repeat as necessary.

The riving knife can be set to two different positions. In order to obtain optimum grooving capacity, the riving knife is set to the lowest position, which limits the maximum depth of cut. In order to obtain the maximum depth of cut, the riving knife is set so that its top is no more than 2 mm above the highest tooth tip of the saw blade (fig. K2).

- Set the riving knife so that the closest point is between 3 and 5 mm away from the saw blade.

Never use your saw without having the blade guard (8) in place, except for grooving. Use extreme care when grooving.

***Mounting the throat plate insert (fig. L)***

- Align the throat plate insert (6) as shown and insert the tabs on the back of the throat plate insert into the holes on the back of the table.
- Press down the front of the throat plate insert.
- The front of the throat plate insert must be flush or slightly below the table top. The rear should be flush or slightly above the table top. Adjust using the four adjustment screws (75).
- Turn the locking screw (see insert in fig. L) clockwise 90° to lock the throat plate insert in place.

Never use your saw without the throat plate insert. Immediately replace the throat plate insert when worn.

***Adjusting the bevel stops (fig. A1, A2, M1 & M2)***

- Set the bevel angle to 0° using the bevel adjuster (14) (fig. A2). If the angle cannot be set to 0°, slightly turn the stop set screw (76) counterclockwise using the 5 mm Allen key (fig. M1).
- Set the saw blade to its highest position using the height adjuster (2) (fig. A1).
- Using a set square, check the angle between the saw blade and the table top.
- Adjust the bevel angle until the saw blade is at exactly 90° to the table top.
- Slowly turn the stop set screw (76) clockwise until you feel resistance.
- Set the bevel angle to 45° using the bevel adjuster. If the angle cannot be set to 45°, slightly turn the stop set screw (77) counterclockwise using the 5 mm Allen key (fig. M2).
- Using a set square, check the angle between the saw blade and the table top.
- Adjust the bevel angle until the saw blade is at exactly 45° to the table top.
- Slowly turn the stop set screw (77) clockwise until you feel resistance.

For special applications, the stops may be set to allow bevel angles between -2° and 47°.

***Adjusting the bevel scale (fig. A2, M3 & M4)***

- Set the bevel angle to 0° using the bevel adjuster (14) (fig. A2).
- Remove the lock knob (78) and height adjuster (2) (fig. M3).
- Loosen the screw (79).
- Set the pointer (80) to exactly 0° on the scale (3). The pointer should be very close to the scale.
- Tighten the screw.
- Set the bevel angle to 45° using the bevel adjuster (14) (fig. A2).

If the pointer does not line up with the 45° mark:

- Loosen the screws (81) (fig. M3).
- Move the scale up or down until the pointer lines up with the 45° mark.
- Tighten the screws.
- Place the adjuster (2) onto the shaft (82) (fig. M4). Slightly rotate the handle until the shaft pin (83) engages in the slot (84).
- Screw the lock knob (78) onto the handle.
- Tighten the lock knob, then slacken it by half a turn.

***Mounting the motor cover (fig. N)***

- Remove the screws (85) and washers (86) using a small flat blade screwdriver.
- Snap the tabs (87) on the motor cover (88) into the slots (89) in the right-hand side crossmember.
- Place the cover into position.
- Remount the screws and washers.

***Placing the saw in position (fig. A2 & O)***

- Move the saw to the location where you intend to use it.

If the saw rocks on the floor, or if it is not level, you can adjust by lowering the foot or feet not touching the floor:

- Loosen the screws (90) using a flat blade screwdriver and the combination wrench (fig. O).
- Move the foot (91) into the desired position.
- Tighten the screws.

- When moving the machine, always seek assistance. The machine is too heavy for one person to handle.
- If possible, bolt the saw to the floor using the floor anchor holes (16) provided (fig. A2).

***Mounting and adjusting the mitre fence (fig. P)***

- Slacken the wing nut (92).
- Slide the fence face (93) onto the mitre fence (10) and into the desired position as shown.
- Tighten the wing nut.

The mitre fence has stops (94) at 90° and 45° left and right. To adjust a stop, proceed as follows:

- Loosen the lock nut (95).
- Use a set square to accurately set the mitre fence to the desired angle.
- Flip the stop plate (96) up.
- Set the stop screw (97) against the stop plate.
- Tighten the lock nut.

***Cleaning and waxing (fig. A1 & A2)***

Your saw was shipped with an anti-corrosion coating on the table top.

- Carefully clean the table top using a mild solvent cleaner.
- Apply paste wax to the table top and remove the wax soon afterward to prevent a sticky build-up.
- Apply paste wax to the front (11) rail and rear rail (12).
- Slide the rip fence (4) back and forth several times.
- Remove the rip fence and buff the rails.

***Connecting the saw to the mains (fig. A1)***

- Connect the power cable to the connector (9) on the saw.
- Connect the power cable to the mains.

The single phase cable must have three conductors. The three-phase cable must have five conductors. Make sure that the cable meets the following specifications.

| Cable length (m) | Min. conductor size ($mm^2$) |
|---|---|
| 0 - 5 | 1.5 |
| 5 - 20 | 2.5 |
| > 20 | 4.0 |

Use only HO7RN-F cables.

*DW746T - Checking the direction of rotation (fig. A1 & Q)*
If you have the DW746T, you must check the direction of rotation of the saw blade before first use.
- Switch the saw on as described below.
- Check if the saw blade rotates clockwise when seen from the left side of the saw.
- Switch the saw off.
- If the blade rotated in the wrong direction, unplug the cable and rotate the two pins (98) in the connector (9) by 180° as shown.

## Instructions for use

- Always observe the safety instructions and applicable regulations.
- Install the appropriate saw blade. Do not use excessively worn blades. The maximum rotation speed of the tool must not exceed that of the saw blade.
- Do not attempt to cut excessively small pieces.
- Allow the blade to cut freely. Do not force.
- Allow the motor to reach full speed before cutting.
- Make sure all locking knobs and clamp handles are tight.
- Never use your saw for freehand cuts!
- Never use your saw for slotting!
- Do not saw warped, bowed or cupped workpieces. There must be at least one straight, smooth side to go against the rip fence or mitre fence.
- Always support long workpieces to prevent kickback.
- Do not remove any cut-offs from the blade area while the blade is running.

The attention of UK users is drawn to the “woodworking machines regulations 1974” and any subsequent amendments.

*Switching on and off (fig. A1 & R)*
The on/off switch (1) has a no-volt release function: should the power be shut off for some reason, the switch has to be deliberately reactivated.
- To switch the machine on, press the green start button (99).
- To switch the machine off, press the red stop button (100).

## Basic saw cuts

*Ripping (fig. A1, A2 & S1)*

Sharp edges.

- Set the bevel angle to 0° using the bevel adjuster (14).
- Lock the rip fence (4) using the lever (101).
- Raise the blade until it is about 3 mm higher than the top of the workpiece.
- Hold the workpiece flat on the table and against the fence. Keep the workpiece approx. 25 mm away from the blade.
- Keep both hands away from the path of the blade.
- Switch the saw on and allow the blade to reach full speed.
- Slowly feed the workpiece underneath the guard, keeping it firmly pressed against the rip fence. Allow the teeth to cut, and do not force the workpiece through the blade. The blade speed should be kept constant.
- After completing the cut, switch the saw off, allow the blade to stop and remove the workpiece.

- Never push or hold the free or cut-off side of the workpiece.
- Do not cut excessively small workpieces.
- Always use a push stick when ripping small workpieces.

*Bevel cuts (fig. A2)*
- Set the required bevel angle using the bevel adjuster (14).
- Proceed as for ripping.

*Cross-cutting and bevel crosscutting (fig. A1 & S2)*
- Remove the rip fence and install the mitre fence (10) in the desired slot (56).
- Lock the mitre fence at 0° using the knob (102).
  Proceed as for ripping.

*Mitre cuts (fig. A1 & S2)*
- Loosen the knob (102).
- Set the mitre fence (10) to the required angle.
- Tighten the knob.
- Always hold the workpiece tightly against the face (93) of the mitre fence.
- Proceed as for ripping.

*Compound mitre (fig. A2)*
This cut is a combination of a mitre and a bevel cut.
- Set the bevel to the angle required using the bevel adjuster (14) and proceed as for a cross-cut mitre.

*Dust extraction (fig. A2)*
The machine is provided with a 38 mm dust extraction port (18) on top of the guard and a 100 mm port (15) on the side.
- Use the optional dust extraction kit DE7470 to connect both ports.
- Connect a suitable dust extraction device during all sawing operations.
- Whenever possible, connect a dust extraction device designed in accordance with the relevant regulations regarding dust emission.

To ensure proper dust extraction, the dust extraction device must comply with the specifications stated above (section Technical data).

*Range of saw blades available (recommended blades)*

| Type of blade | Blade dimensions | Usage |
|---|---|---|
| DT1121QZ Series 40 | 250x30x24 | For cutting wood along the grain, block board, plywood and MDF. Coarse cut. |
| DT1123QZ Series 40 | 250x30x80 | For cutting wood, wood products, plastics and aluminum. Medium cut. |
| DT1722QZ Series 60 | 250x30x24 | For cutting wood along the grain, block board, plywood and MDF. Coarse cut. |
| DT1726QZ Series 60 | 250x30x48 | For combination cutting in wood, block board, plywood and MDF. Medium cut. |
| DT1731QZ Series 60 | 250x30x80 | For cutting wood, wood products, and plastics. Not for aluminum! Fine cut. |

Always choose a suitable saw blade for your application.

*Optional accessories*
The following accessories are available:
- Small sliding table and premium mitre gauge DE7461
- Large sliding table DE7465
- Mobile base DE7460
- 129 cm ripping support system DE7464
- Cast iron wings DE7462
- Dust extraction kit DE7470

Sharp edges.

Mounting and using a dado head

The dado head must always be used together with the special dado throat plate (DE7466) which is available as an option. The dado head is used for cuts which are wider than the saw kerf.

- Remove the blade guard assembly and the blade.
- Replace the inner clamp washer by the outer clamp washer.
- Mount the dado cutter blades.
- Secure the dado head using the standard arbor nut.
- Lower the dado head into position for the depth of cut required.
- After completing the dado cuts, remount the blade guard.

- Always check the clearance for the dado head before operating the saw.
- The maximum dado width is 15.5 mm.
- Make shallow cuts only!

Consult your dealer for further information on the appropriate accessories.

## Maintenance

Your DEWALT machine has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

*Cleaning*

Keep the ventilation slots clear and regularly clean the housing with a soft cloth.

- Regularly clean the table top.
- Regularly clean the dust collection system.

*Maintaining the table top*

If you notice signs of rust on the table top:

- Carefully remove the rust using steel wool.
- Carefully clean the table top using a mild solvent cleaner.
- Apply paste wax to the table top and remove the wax soon afterward to prevent a sticky build-up.

*Maintaining the fence system*

The rip fence should always slide freely. If excessive force is needed to slide the rip fence:

- Wipe the rails and the gliding surface of the fence head using a cloth or paper towel.

If the rip fence still does not slide freely:

- Clean the fence head and rails using a mild solvent cleaner.
- Coat the rails with paste wax or light oil.
- Slide the fence back and forth several times.
- Wipe off any excess wax or oil from the rails.

If the gliding surface of the fence head is damaged, consult your dealer.

*Cleaning and lubricating the height and bevel gear (fig. A1, A2 & T1 - T3)*

- Regularly remove sawdust from the height and bevel gear system.

The height and bevel gear system should be periodically lubricated.

- Set the bevel angle to 0° using the adjuster (14) (fig. A2).
- Set the saw blade to its highest position using the adjuster (2) (fig. A1).
- Clean and lubricate the curved slots (103) (fig. T1 & T2).
- Lubricate the support (107).
- Clean and lubricate the worm (104) and the shiny washer just behind (fig. T2).
- Set the bevel angle to 45° using the adjuster (14) (fig. A2).
- Set the saw blade to its lowest position using the adjuster (2) (fig. A1).
- Clean and lubricate the worm (105) and the shiny washer just to the left (fig. T3).
- Clean and lubricate the gears (106).

*Lubricating the fence head (fig. T4)*

The moving parts of the fence head should be regularly lubricated.

- Apply a suitable grease to the area between the cams and locking levers and between the cams and the fence head casting (fig. T4).

*Lubricating the height pivot pin (fig. A1 & T5)*

- Set the saw blade to its lowest position using the adjuster (2).
- Lubricate the front and rear end of the pin (108) using light oil.

## Unwanted tools and the environment

Take your tool to an authorized DEWALT repair agent where it will be disposed of in an environmentally safe way.

### GUARANTEE

• 30 DAY NO RISK SATISFACTION GUARANTEE •

If you are not completely satisfied with the performance of your DEWALT machine, simply return it within 30 days, complete as purchased, to the point of purchase, for a full refund or exchange. Proof of purchase must be produced.

• ONE YEAR FREE SERVICE CONTRACT •

If you need maintenance or service for your DEWALT machine, in the 12 months following purchase, it will be undertaken free of charge at an authorized DEWALT repair agent. Proof of purchase must be produced. Includes labour and spare parts for Power Tools. Excludes accessories.

• ONE YEAR WARRANTY •

If your DEWALT product becomes defective due to faulty materials or workmanship within 12 months from the date of purchase, we guarantee to replace all defective parts free of charge or, at our discretion, replace the unit free of charge provided that:

- The product has not been misused.
- Repairs have not been attempted by unauthorized persons.
- Proof of purchase date is produced.

This guarantee is offered as an extra benefit and is additional to consumers statutory rights.

For the location of your nearest authorized DEWALT repair agent, please use the appropriate telephone number on the back of this manual. Alternatively, a list of authorized DEWALT repair agents and full details on our after-sales service are available on the Internet at **www.2helpU.com**.